

153	50	5.6	1400	21	US-10-956-157-7673	Sequence 7673, App	c 226	48.6	5.4	1384	18	US-10-287-971-99	Sequence 97, Appl
154	50	5.6	2155	17	US-10-264-237-884	Sequence 884, App	227	48.6	5.4	1597	18	US-10-287-971-99	Sequence 99, Appl
155	50	5.6	3354	20	US-10-425-115-158032	Sequence 158032,	228	48.6	5.4	2340	18	US-10-433-803-30	Sequence 30, Appl
156	50	5.6	3509	21	US-10-956-157-24038	Sequence 2438, App	229	48.6	5.4	2608	9	US-09-739-254-16	Sequence 16, Appl
c 157	49.8	5.6	392	9	US-09-960-352-13003	Sequence 13003, A	230	48.6	5.4	2608	9	US-09-904-615-16	Sequence 16, Appl
c 158	49.8	5.6	1519	20	US-10-425-115-48526	Sequence 48526, A	231	48.6	5.4	2608	14	US-10-054-988-16	Sequence 16, Appl
c 159	49.6	5.6	201	20	US-10-357-930-58283	Sequence 58283, A	232	48.6	5.4	5130	20	US-10-425-115-28545	Sequence 28545, A
c 160	49.6	5.6	341	20	US-10-435-115-77243	Sequence 77243, A	c 233	48.6	5.4	9447	15	US-10-311-455-1140	Sequence 1140, App
c 161	49.6	5.6	569	9	US-09-764-877-903	Sequence 903, App	c 234	48.6	5.4	10328	15	US-10-311-455-1518	Sequence 1518, App
c 162	49.6	5.6	569	17	US-10-242-515-903	Sequence 903, App	c 235	48.4	5.4	316	20	US-10-425-115-149491	Sequence 149491,
c 163	49.6	5.6	843	15	US-10-156-761-5578	Sequence 5578, App	236	48.4	5.4	1428	16	US-10-102-349-1	Sequence 1, Appli
c 164	49.6	5.6	1614	9	US-09-928-298-178	Sequence 178, App	284	48.4	5.4	1759	15	US-10-219-065-5	Sequence 5, Appli
c 165	49.6	5.6	1614	14	US-10-102-806-178	Sequence 178, App	341	48.4	5.4	2875	9	US-09-801-220-1	Sequence 1, Appli
c 166	49.6	5.6	2227	19	US-10-786-720-29	Sequence 29, Appl	342	48.4	5.4	2875	17	US-10-184-648-9	Sequence 9, Appli
c 167	49.6	5.6	2227	22	US-10-756-149-244	Sequence 244, App	343	48.4	5.4	3050	20	US-10-425-115-158034	Sequence 158034,
c 168	49.6	5.6	2775	14	US-10-161-521A-3	Sequence 3, Appli	344	48.2	5.4	553	16	US-10-411-224-30	Sequence 30, Appl
c 169	49.6	5.6	9025608	15	US-10-156-761-1	Sequence 1, Appli	345	48.2	5.4	553	17	US-10-047-021-30	Sequence 1, Appli
c 170	49.4	5.5	219	20	US-10-357-930-60860	Sequence 60860, A	c 346	48.2	5.4	553	21	US-10-935-290-1	Sequence 1, Appli
c 171	49.4	5.5	290	19	US-10-437-963-44641	Sequence 44641, A	347	48.2	5.4	815	20	US-10-723-860-7151	Sequence 7151, App
c 172	49.4	5.5	472	10	US-09-918-995-15956	Sequence 15956, A	c 348	48.2	5.4	892	20	US-10-425-115-150799	Sequence 150799,
c 173	49.4	5.5	729	21	US-10-956-157-2836	Sequence 2836, App	349	48.2	5.4	1118	17	US-10-264-237-985	Sequence 985, App
c 174	49.4	5.5	729	21	US-10-956-157-8071	Sequence 8071, App	350	48.2	5.4	2826	21	US-10-362-332-1	Sequence 1, Appli
c 175	49.4	5.5	3039	9	US-09-925-298-238	Sequence 238, App	351	48	5.4	196	20	US-10-357-930-59024	Sequence 59024, A
c 176	49.4	5.5	3039	14	US-10-102-806-238	Sequence 238, App	c 352	48	5.4	371	9	US-09-770-791-345	Sequence 345, App
c 177	49.2	5.5	358	18	US-10-424-599-52765	Sequence 52765, A	353	48	5.4	403	20	US-10-425-115-182281	Sequence 182281,
c 178	49.2	5.5	403	20	US-10-425-115-8084	Sequence 8084, App	354	48	5.4	469	10	US-09-918-995-11830	Sequence 11830, A
c 179	49.2	5.5	413	10	US-09-918-995-7802	Sequence 7802, App	355	48	5.4	469	10	US-09-918-995-32374	Sequence 32374, A
c 180	49.2	5.5	525	20	US-10-425-115-130292	Sequence 130292,	c 356	48	5.4	541	21	US-10-956-157-3557	Sequence 3557, App
c 181	49.2	5.5	538	20	US-10-425-115-162326	Sequence 162326,	357	48	5.4	541	21	US-10-956-157-8792	Sequence 8792, App
c 182	49.2	5.5	604	9	US-09-925-301-275	Sequence 275, App	358	48	5.4	545	15	US-10-106-698-1712	Sequence 1712, App
c 183	49.2	5.5	1755	17	US-10-159-563-266	Sequence 266, App	359	48	5.4	602	20	US-10-956-157-7829	Sequence 7829, App
c 184	49.2	5.5	1920	19	US-10-437-963-82408	Sequence 82408, A	360	48	5.4	602	20	US-10-370-7158-283	Sequence 283, App
c 185	49	5.5	447	20	US-10-425-115-115729	Sequence 115729, A	361	48	5.4	672	21	US-10-956-157-143	Sequence 143, App
c 186	49	5.5	834	20	US-10-425-115-21126	Sequence 21126, A	362	48	5.4	672	21	US-10-956-157-5378	Sequence 5378, App
c 187	49	5.5	1280	14	US-10-091-458-23	Sequence 23, Appl	363	48	5.4	995	15	US-10-050-882-34	Sequence 34, Appl
c 188	49	5.5	1280	17	US-10-411-420-16	Sequence 16, Appl	364	48	5.4	1466	9	US-09-925-300-531	Sequence 531, App
c 189	49	5.5	1663	9	US-09-925-301-449	Sequence 23, Appl	365	48	5.4	1545	20	US-10-425-115-132037	Sequence 132037,
c 190	49	5.5	2211	11	US-09-764-875-139	Sequence 139, App	366	48	5.4	1548	20	US-10-751-736-57	Sequence 57, Appl
c 191	49	5.5	2322	9	US-09-925-302-257	Sequence 257, App	367	48	5.4	2255	21	US-10-956-157-2594	Sequence 2594, App
c 192	49	5.5	2322	10	US-09-925-302-257	Sequence 257, App	368	48	5.4	3459	18	US-10-311-795-3	Sequence 3, Appli
c 193	49	5.5	3275	9	US-09-738-973-151	Sequence 151, App	369	48	5.4	3459	22	US-10-756-149-1720	Sequence 1720, App
c 194	49	5.5	3275	9	US-09-854-133-151	Sequence 151, App	370	48	5.4	449	20	US-10-723-860-7936	Sequence 7936, App
c 195	49	5.5	3275	15	US-10-144-649A-151	Sequence 151, App	c 371	47.8	5.4	208	18	US-10-424-599-123367	Sequence 123367,
c 196	49	5.5	3275	16	US-10-887-553A-777	Sequence 777, App	c 372	47.8	5.4	306	21	US-10-505-680-647	Sequence 647, App
c 197	49	5.5	3600	21	US-10-240-452-25	Sequence 25, Appl	c 373	47.8	5.4	339	9	US-09-880-107-706	Sequence 706, App
c 198	49	5.5	11670	16	US-10-240-452-25	Sequence 25, Appl	374	47.8	5.4	339	18	US-10-424-599-50183	Sequence 50183, A
c 199	48.8	5.5	139	17	US-10-242-535A-20914	Sequence 20914, A	c 375	47.8	5.4	424	20	US-10-425-115-178170	Sequence 178170,
c 200	48.8	5.5	139	18	US-10-085-783A-20914	Sequence 20914, A	c 376	47.8	5.4	445	20	US-10-425-115-69016	Sequence 69016, A
c 201	48.8	5.5	445	10	US-09-918-995-32763	Sequence 32763, A	c 377	47.8	5.4	470	10	US-09-918-995-15687	Sequence 15687, A
c 202	48.8	5.5	461	10	US-09-925-302-225	Sequence 225, App	c 378	47.8	5.4	582	19	US-10-437-963-55929	Sequence 55929, A
c 203	48.8	5.5	601	9	US-09-925-302-225	Sequence 225, App	379	47.8	5.4	582	9	US-09-915-582-19	Sequence 19, Appl
c 204	48.8	5.5	601	10	US-10-425-115-70593	Sequence 70593, A	380	47.8	5.4	582	16	US-10-277-802-19	Sequence 19, Appl
c 205	48.8	5.5	667	20	US-10-425-115-70593	Sequence 70593, A	381	47.8	5.4	582	21	US-10-896-972-19	Sequence 19, Appl
c 206	48.8	5.5	1249	14	US-10-012-542-128	Sequence 128, App	c 382	47.8	5.4	591	20	US-10-425-115-178828	Sequence 178828,
c 207	48.8	5.5	1249	14	US-10-115-123-128	Sequence 128, App	c 383	47.8	5.4	679	20	US-10-425-115-23212	Sequence 2312, A
c 208	48.8	5.5	1249	22	US-10-800-834-128	Sequence 128, App	384	47.8	5.4	700	19	US-09-832-123-23	Sequence 23, Appl
c 209	48.8	5.5	1260	14	US-10-012-542-93	Sequence 93, Appl	385	47.8	5.4	700	20	US-10-733-368-23	Sequence 23, Appl
c 210	48.8	5.5	1260	14	US-10-115-123-93	Sequence 93, Appl	386	47.8	5.4	922	20	US-10-425-115-173654	Sequence 173654,
c 211	48.8	5.5	1260	22	US-10-800-834-93	Sequence 93, Appl	387	47.8	5.4	1176	9	US-09-764-898-23	Sequence 23, Appl
c 212	48.8	5.5	1733	18	US-10-424-599-78400	Sequence 78400, A	388	47.8	5.4	1215	17	US-10-264-237-600	Sequence 600, App
c 213	48.8	5.5	1904	9	US-09-925-301-594	Sequence 594, App	c 389	47.8	5.4	1332	9	US-09-867-701-10891	Sequence 10891, A
c 214	48.8	5.5	2021	17	US-10-264-049-519	Sequence 519, App	390	47.8	5.4	1381	9	US-09-739-907-52	Sequence 52, Appl
c 215	48.8	5.5	2189	20	US-10-425-115-129564	Sequence 129564,	391	47.8	5.4	1381	11	US-09-938-671-52	Sequence 52, Appl
c 216	48.8	5.5	2355	17	US-10-104-047-229	Sequence 229, App	392	47.8	5.4	1381	21	US-10-935-098-52	Sequence 52, Appl
c 217	48.8	5.5	2608	9	US-09-154-750A-75	Sequence 75, Appl	393	47.8	5.4	1439	9	US-09-739-907-53	Sequence 53, Appl
c 218	48.8	5.5	2608	19	US-10-319-308-4	Sequence 4, Appli	394	47.8	5.4	1439	11	US-09-938-671-53	Sequence 53, Appl
c 219	48.8	5.5	2608	19	US-10-755-889-612	Sequence 612, App	395	47.8	5.4	1439	21	US-10-935-098-53	Sequence 53, Appl
c 220	48.8	5.5	2683	22	US-10-755-889-612	Sequence 612, App	396	47.8	5.4	1475	20	US-10-425-115-24720	Sequence 24720, A
c 221	48.8	5.5	2703	19	US-10-319-308-12	Sequence 12, Appl	397	47.8	5.4	1516	11	US-09-938-671-37	Sequence 37, Appl
c 222	48.8	5.5	334462	21	US-10-496-011-1	Sequence 1, Appli	398	47.8	5.4	1516	21	US-10-935-098-37	Sequence 37, Appl
c 223	48.6	5.4	340	20	US-10-425-115-73381	Sequence 73381, A	399	47.8	5.4	1637	9	US-10-927-937A-3	Sequence 3, Appli
c 224	48.6	5.4	410	20	US-10-425-115-16531	Sequence 16531, A	400	47.8	5.4	1637	21	US-10-968-990A-3	Sequence 3, Appli
c 225	48.6	5.4	436	18	US-10-424-599-7496	Sequence 7496, App	401	47.8	5.4	1637	22	US-10-968-990A-3	Sequence 3, Appli

402	47.8	5.4	1662	20	US-10-482-952-15	Sequence 15, Appl	475	47.2	5.3	589	19	US-10-437-963-20542	Sequence 20542, A
c 403	47.8	5.4	2573	19	US-10-437-963-66886	Sequence 66886, A	476	47.2	5.3	608	20	US-10-425-115-24855	Sequence 24855, A
404	47.8	5.4	2724	16	US-10-269-909-43	Sequence 43, Appl	477	47.2	5.3	762	13	US-10-027-633-125849	Sequence 125849, A
405	47.8	5.4	2939	17	US-10-172-118-301	Sequence 301, Appl	478	47.2	5.3	762	17	US-10-027-633-125849	Sequence 125849, A
406	47.8	5.4	2939	18	US-10-342-887-301	Sequence 301, Appl	479	47.2	5.3	1318	20	US-10-425-115-130322	Sequence 130322, A
407	47.6	5.3	294	20	US-10-723-860-239	Sequence 239, Appl	480	47.2	5.3	1400	21	US-10-956-157-6786	Sequence 6786, Ap
408	47.6	5.3	444	9	US-09-764-869-533	Sequence 533, Appl	481	47.2	5.3	1450	9	US-09-880-107-3741	Sequence 3741, Ap
409	47.6	5.3	444	9	US-09-764-846-34	Sequence 34, Appl	482	47.2	5.3	1450	10	US-09-960-706-1068	Sequence 1068, Ap
410	47.6	5.3	444	14	US-10-091-483-34	Sequence 34, Appl	483	47.2	5.3	1450	17	US-09-873-319-709	Sequence 709, App
411	47.6	5.3	444	14	US-10-091-504-533	Sequence 533, Appl	484	47.2	5.3	1450	17	US-10-173-118-1247	Sequence 1247, Ap
412	47.6	5.3	444	17	US-10-227-577-533	Sequence 533, Appl	485	47.2	5.3	1450	18	US-10-240-425-1541	Sequence 1541, Ap
c 413	47.6	5.3	453	10	US-09-814-353-2831	Sequence 2831, Ap	486	47.2	5.3	1450	18	US-10-342-887-1247	Sequence 1247, Ap
c 414	47.6	5.3	453	10	US-09-814-353-9161	Sequence 9161, Ap	487	47.2	5.3	1450	20	US-10-723-860-2445	Sequence 2445, Ap
415	47.6	5.3	469	20	US-10-425-115-47873	Sequence 47873, A	488	47.2	5.3	1450	21	US-10-956-157-1551	Sequence 1551, Ap
416	47.6	5.3	474	20	US-09-918-995-1291	Sequence 1291, Ap	489	47.2	5.3	1450	22	US-10-756-149-2262	Sequence 2262, Ap
c 417	47.6	5.3	483	20	US-10-425-115-52797	Sequence 52797, A	490	47.2	5.3	1481	18	US-10-467-248-17	Sequence 17, Appl
c 418	47.6	5.3	489	20	US-10-425-115-106344	Sequence 106344, A	491	47.2	5.3	1677	20	US-10-723-860-6622	Sequence 6622, Ap
c 419	47.6	5.3	491	20	US-10-425-115-101405	Sequence 101405, A	492	47.2	5.3	1870	18	US-10-424-599-117530	Sequence 117530, A
c 420	47.6	5.3	509	20	US-10-357-930-48857	Sequence 48857, A	493	47.2	5.3	2073	11	US-09-764-875-59	Sequence 59, Appl
c 421	47.6	5.3	636	17	US-10-144-194A-11	Sequence 11, Appl	494	47.2	5.3	2335	18	US-10-424-599-15955	Sequence 15955, A
c 422	47.6	5.3	636	20	US-10-491-566-11	Sequence 11, Appl	495	47.2	5.3	2425	9	US-09-925-298-249	Sequence 249, App
c 423	47.6	5.3	656	20	US-10-425-115-65142	Sequence 65142, A	496	47.2	5.3	2425	14	US-10-103-806-249	Sequence 249, App
c 424	47.6	5.3	658	18	US-10-424-599-122157	Sequence 122157, A	497	47.2	5.3	4125	19	US-10-775-920-198	Sequence 198, App
c 425	47.6	5.3	889	19	US-10-437-963-93033	Sequence 93033, A	498	47.2	5.3	4391	22	US-10-756-149-2960	Sequence 2960, Ap
c 426	47.6	5.3	1088	19	US-10-437-963-86611	Sequence 86611, A	499	47.2	5.3	232	20	US-10-357-930-58542	Sequence 58542, A
c 427	47.6	5.3	1886	19	US-10-437-963-47323	Sequence 47323, A	500	47.2	5.3	248	10	US-09-814-353-15545	Sequence 15545, A
c 428	47.6	5.3	2228	20	US-10-425-115-172842	Sequence 172842, A	501	47.2	5.3	299	17	US-10-242-535A-13962	Sequence 13962, A
c 429	47.6	5.3	2310	14	US-10-198-846-9889	Sequence 9889, Ap	502	47.2	5.3	299	18	US-10-085-783A-13962	Sequence 13962, A
c 430	47.6	5.3	2419	19	US-10-757-262-109	Sequence 109, Appl	503	47.2	5.3	339	20	US-10-425-115-114647	Sequence 114647, A
c 431	47.6	5.3	2419	20	US-10-768-158-1	Sequence 1, Appl	504	47.2	5.3	342	19	US-10-021-323-9783	Sequence 9783, Ap
c 432	47.6	5.3	2452	20	US-10-723-860-6796	Sequence 6796, Ap	505	47.2	5.3	400	10	US-09-918-995-3590	Sequence 3590, Ap
c 433	47.6	5.3	2691	17	US-10-172-118-324	Sequence 324, Appl	506	47.2	5.3	420	20	US-10-425-115-134422	Sequence 134422, A
c 434	47.6	5.3	2691	18	US-10-342-887-324	Sequence 324, Appl	507	47.2	5.3	478	10	US-09-918-995-22947	Sequence 22947, A
c 435	47.4	5.3	287	20	US-10-357-930-56821	Sequence 56821, A	508	47.2	5.3	504	10	US-09-918-995-21089	Sequence 21089, A
c 436	47.4	5.3	332	10	US-09-918-995-11438	Sequence 11438, A	509	47.2	5.3	517	19	US-10-437-963-5424	Sequence 5424, Ap
c 437	47.4	5.3	334	10	US-09-918-995-15303	Sequence 15303, A	510	47.2	5.3	600	22	US-10-972-079-68326	Sequence 68326, A
c 438	47.4	5.3	407	20	US-10-357-930-60735	Sequence 60735, A	511	47.2	5.3	747	20	US-10-723-860-6848	Sequence 6848, Ap
c 439	47.4	5.3	418	10	US-09-918-995-35751	Sequence 35751, A	512	47.2	5.3	810	9	US-09-764-868-37	Sequence 37, Appl
c 440	47.4	5.3	442	20	US-10-425-115-78734	Sequence 78734, A	513	47.2	5.3	923	18	US-10-424-599-137020	Sequence 137020, A
c 441	47.4	5.3	551	19	US-10-767-701-14230	Sequence 14230, A	514	47.2	5.3	1112	20	US-10-425-115-79326	Sequence 79326, A
c 442	47.4	5.3	554	20	US-10-425-115-27542	Sequence 27542, A	515	47.2	5.3	1154	19	US-10-437-963-78454	Sequence 78454, A
c 443	47.4	5.3	557	20	US-10-425-115-160722	Sequence 160722, A	516	47.2	5.3	1309	9	US-09-764-898-74	Sequence 74, Appl
c 444	47.4	5.3	727	20	US-10-425-115-61824	Sequence 61824, A	517	47.2	5.3	1310	9	US-09-764-893-52	Sequence 52, Appl
c 445	47.4	5.3	821	21	US-10-956-157-209	Sequence 209, Appl	518	47.2	5.3	1310	9	US-09-764-881-29	Sequence 29, Appl
c 446	47.4	5.3	821	21	US-10-473-974-4	Sequence 4, Appl	519	47.2	5.3	1310	9	US-09-764-853-421	Sequence 421, App
c 447	47.4	5.3	821	21	US-10-956-157-5444	Sequence 5444, Ap	520	47.2	5.3	1310	9	US-09-764-898-146	Sequence 146, App
c 448	47.4	5.3	1169	20	US-10-027-632-325230	Sequence 325230, A	521	47.2	5.3	1310	10	US-09-764-881-29	Sequence 29, Appl
c 449	47.4	5.3	1170	13	US-10-027-632-325230	Sequence 325230, A	522	47.2	5.3	1310	14	US-10-073-865-52	Sequence 52, Appl
c 450	47.4	5.3	1898	17	US-10-264-049-287	Sequence 287, Appl	523	47.2	5.3	1310	17	US-10-242-747-29	Sequence 29, Appl
c 451	47.4	5.3	1933	9	US-10-484-669-3	Sequence 3, Appl	524	47.2	5.3	1525	9	US-09-984-245-114	Sequence 114, App
c 452	47.4	5.3	1974	9	US-09-834-975-994	Sequence 994, Appl	525	47.2	5.3	1525	10	US-09-966-262-114	Sequence 114, App
c 453	47.4	5.3	2175	15	US-10-050-882-15	Sequence 15, Appl	526	47.2	5.3	1525	10	US-09-983-966-114	Sequence 114, App
c 454	47.4	5.3	2203	20	US-10-425-115-71810	Sequence 71810, A	527	47.2	5.3	1525	14	US-10-059-395-114	Sequence 114, App
c 455	47.4	5.3	2461	9	US-09-925-299-129	Sequence 129, Appl	528	47.2	5.3	1525	14	US-10-012-542-110	Sequence 110, App
c 456	47.4	5.3	2461	10	US-09-925-299-129	Sequence 129, Appl	529	47.2	5.3	1525	14	US-10-115-123-110	Sequence 110, App
c 457	47.4	5.3	2461	15	US-10-106-698-289	Sequence 289, Appl	530	47.2	5.3	1525	14	US-10-143-090-114	Sequence 114, App
c 458	47.4	5.3	2720	20	US-10-425-115-22335	Sequence 22335, A	531	47.2	5.3	1525	21	US-10-960-251-114	Sequence 114, App
c 459	47.4	5.3	2875	14	US-10-175-523-127	Sequence 127, Appl	532	47.2	5.3	1525	22	US-10-800-834-110	Sequence 110, App
c 460	47.4	5.3	2875	14	US-10-175-523-129	Sequence 129, Appl	533	47.2	5.3	1525	22	US-10-472-533-241	Sequence 241, App
c 461	47.4	5.3	2875	24	US-11-099-266-127	Sequence 127, Appl	534	47.2	5.3	1624	18	US-10-424-599-80390	Sequence 80390, A
c 462	47.4	5.3	2875	24	US-11-099-266-129	Sequence 129, Appl	535	47.2	5.3	1698	22	US-10-491-467-65	Sequence 65, Appl
c 463	47.4	5.3	3240	19	US-10-437-963-3533	Sequence 3533, Ap	536	47.2	5.3	1704	20	US-10-425-115-35871	Sequence 35871, A
c 464	47.4	5.3	33627	19	US-10-433-793-6	Sequence 6, Appl	537	47.2	5.3	1949	14	US-10-012-542-26	Sequence 26, Appl
c 465	47.2	5.3	304	20	US-10-357-930-19419	Sequence 19419, A	538	47.2	5.3	1949	14	US-10-115-123-26	Sequence 26, Appl
c 466	47.2	5.3	337	20	US-10-357-930-55725	Sequence 55725, A	539	47.2	5.3	1949	22	US-10-800-834-26	Sequence 26, Appl
c 467	47.2	5.3	348	20	US-10-425-115-62764	Sequence 62764, A	540	47.2	5.3	1949	22	US-10-472-533-239	Sequence 239, App
c 468	47.2	5.3	425	10	US-09-814-353-15543	Sequence 15543, A	541	47.2	5.3	2140	9	US-09-764-853-250	Sequence 250, App
c 469	47.2	5.3	429	20	US-10-425-115-112759	Sequence 112759, A	542	47.2	5.3	2535	20	US-10-723-860-5035	Sequence 5035, Ap
c 470	47.2	5.3	469	19	US-10-021-323-6668	Sequence 6668, Ap	543	47.2	5.3	2714	15	US-10-219-065-21	Sequence 21, Appl
c 471	47.2	5.3	480	10	US-09-918-995-11420	Sequence 11420, A	544	47.2	5.3	2826	20	US-10-723-860-5302	Sequence 5302, Ap
c 472	47.2	5.3	492	18	US-10-424-599-98091	Sequence 98091, A	545	47.2	5.3	3172	20	US-10-723-860-5834	Sequence 5834, Ap
c 473	47.2	5.3	504	20	US-10-425-115-47783	Sequence 47783, A	546	47.2	5.3	3770	10	US-09-759-1308-201	Sequence 201, App
c 474	47.2	5.3	579	19	US-10-021-323-17839	Sequence 17839, A	547	47.2	5.3	3770	19	US-10-741-790-201	Sequence 201, App

651	47	5.3	4425	20	US-10-723-860-7386	Sequence 7386, Ap	1419	46.6	5.2	445	20	US-10-425-115-138033	Sequence 138033,
c 652	47	5.3	17934	15	US-10-311-455-1692	Sequence 1692, Ap	1420	46.6	5.2	479	10	US-09-764-891-53	Sequence 53, Appl
c 653	47	5.3	98686	17	US-10-189-367-20	Sequence 20, Appl	c1421	46.6	5.2	496	19	US-10-437-963-29090	Sequence 29090, A
c 654	46.8	5.2	201	20	US-10-719-993-10419	Sequence 10419, A	c1422	46.6	5.2	500	20	US-10-425-115-132551	Sequence 132551,
c 655	46.8	5.2	201	21	US-10-719-993-10419	Sequence 27492, A	c1423	46.6	5.2	504	19	US-10-437-963-923	Sequence 923, App
c 656	46.8	5.2	225	17	US-10-242-535A-46212	Sequence 46212, A	c1424	46.6	5.2	510	20	US-10-425-115-133036	Sequence 133036, A
c 657	46.8	5.2	225	18	US-10-085-783A-46212	Sequence 46212, A	c1425	46.6	5.2	533	20	US-10-425-115-89699	Sequence 89699, A
c 658	46.8	5.2	288	11	US-09-864-408A-5845	Sequence 5845, Ap	c1426	46.6	5.2	624	20	US-10-425-115-8025	Sequence 8025, Ap
c 659	46.8	5.2	340	16	US-10-411-224-47	Sequence 47, Appl	c1427	46.6	5.2	655	21	US-10-956-157-2701	Sequence 2701, Ap
c 660	46.8	5.2	340	17	US-10-047-021-47	Sequence 47, Appl	c1428	46.6	5.2	655	21	US-10-956-157-2736	Sequence 2736, Ap
c 661	46.8	5.2	359	20	US-10-357-930-54785	Sequence 54785, A	c1429	46.6	5.2	656	20	US-10-425-115-155817	Sequence 155817,
c 662	46.8	5.2	359	20	US-10-425-115-45086	Sequence 5086, A	c1430	46.6	5.2	749	22	US-10-644-765-38	Sequence 38, Appl
c 663	46.8	5.2	363	19	US-10-437-963-2971	Sequence 2971, Ap	c1431	46.6	5.2	1027	9	US-09-803-589-13	Sequence 13, Appl
c 664	46.8	5.2	447	10	US-09-918-995-13767	Sequence 13767, A	c1432	46.6	5.2	1027	20	US-10-718-332-13	Sequence 13, Appl
c 665	46.8	5.2	472	10	US-09-918-995-27913	Sequence 27913, A	c1433	46.6	5.2	1092	9	US-09-925-301-317	Sequence 317, Appl
c 666	46.8	5.2	479	20	US-10-425-115-49518	Sequence 49518, A	c1434	46.6	5.2	1214	9	US-09-780-717-28	Sequence 28, Appl
c 667	46.8	5.2	493	20	US-10-425-115-104714	Sequence 611, App	c1435	46.6	5.2	1250	20	US-10-425-115-155395	Sequence 155395,
c 668	46.8	5.2	574	19	US-10-437-963-67637	Sequence 67637, A	c1436	46.6	5.2	1282	19	US-10-467-595-49	Sequence 49, Appl
c 669	46.8	5.2	606	20	US-10-425-115-72997	Sequence 72997, A	c1437	46.6	5.2	1354	9	US-09-925-301-315	Sequence 315, Appl
c 670	46.8	5.2	625	20	US-10-425-115-81074	Sequence 81074, A	c1438	46.6	5.2	1358	17	US-10-310-154-34	Sequence 34, Appl
c 671	46.8	5.2	681	20	US-10-425-115-69667	Sequence 69667, A	c1439	46.6	5.2	1378	21	US-10-767-701-13092	Sequence 13092, A
c 672	46.8	5.2	717	20	US-10-425-115-104714	Sequence 104714, A	c1440	46.6	5.2	1378	21	US-10-732-923-169	Sequence 169, App
c 673	46.8	5.2	747	20	US-10-425-115-177189	Sequence 177189, A	c1441	46.6	5.2	1399	9	US-09-925-300-457	Sequence 457, App
c 674	46.8	5.2	754	20	US-10-425-115-115492	Sequence 115492, A	c1442	46.6	5.2	1400	21	US-10-956-157-7636	Sequence 7636, Ap
c 675	46.8	5.2	810	9	US-09-764-846-82	Sequence 82, Appl	c1443	46.6	5.2	1486	20	US-10-723-860-5536	Sequence 5536, Ap
c 676	46.8	5.2	810	14	US-10-091-483-82	Sequence 82, Appl	c1444	46.6	5.2	1593	20	US-10-425-115-7418	Sequence 7418, Ap
c 677	46.8	5.2	848	14	US-10-138-846-8654	Sequence 8654, Ap	c1445	46.6	5.2	1638	17	US-10-131-410-151	Sequence 151, App
c 678	46.8	5.2	970	20	US-10-425-115-17515	Sequence 17515, A	c1446	46.6	5.2	1638	18	US-10-424-599-96402	Sequence 96402, A
c 705	46.8	5.2	972	10	US-09-997-428-358	Sequence 358, App	c1447	46.6	5.2	1722	10	US-09-984-276-102	Sequence 102, App
1217	46.8	5.2	972	15	US-10-223-085-169	Sequence 169, App	c1448	46.6	5.2	1722	10	US-09-984-271-102	Sequence 102, App
1223	46.8	5.2	972	15	US-10-223-085-107	Sequence 107, App	c1449	46.6	5.2	1836	11	US-09-989-890-76	Sequence 76, Appl
1255	46.8	5.2	972	15	US-10-223-084-169	Sequence 169, App	c1451	46.6	5.2	1844	13	US-10-001-054-23	Sequence 23, Appl
1266	46.8	5.2	972	15	US-10-223-088-169	Sequence 169, App	c1452	46.6	5.2	1844	13	US-10-053-107-1	Sequence 1, Appl1
1267	46.8	5.2	972	15	US-10-223-090-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1272	46.8	5.2	972	15	US-10-223-087-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1278	46.8	5.2	972	15	US-10-223-083-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1283	46.8	5.2	972	15	US-10-223-089-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1299	46.8	5.2	972	16	US-10-174-587-443	Sequence 443, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1335	46.8	5.2	972	16	US-10-223-081-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1335	46.8	5.2	972	16	US-10-223-081-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1354	46.8	5.2	972	16	US-10-223-082-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1369	46.8	5.2	972	17	US-10-305-654-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1376	46.8	5.2	972	18	US-10-081-056-169	Sequence 169, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1386	46.8	5.2	972	22	US-10-950-374-358	Sequence 358, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1389	46.8	5.2	996	18	US-10-424-599-75778	Sequence 75778, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1390	46.8	5.2	1050	10	US-09-984-276-58	Sequence 58, Appl	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1391	46.8	5.2	1050	10	US-09-984-271-58	Sequence 58, Appl	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1392	46.8	5.2	1050	22	US-10-472-533-242	Sequence 242, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1393	46.8	5.2	1052	22	US-10-472-533-94	Sequence 94, Appl	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1394	46.8	5.2	1400	21	US-10-956-157-7231	Sequence 7231, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1395	46.8	5.2	1701	20	US-10-821-273-41	Sequence 41, Appl	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1396	46.8	5.2	2014	20	US-10-723-860-5163	Sequence 5163, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1397	46.8	5.2	2023	20	US-10-723-860-6452	Sequence 6452, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1398	46.8	5.2	2112	13	US-10-001-857-108	Sequence 108, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1399	46.8	5.2	2125	9	US-09-880-107-2412	Sequence 2412, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1400	46.8	5.2	2125	19	US-10-706-791-20	Sequence 20, Appl	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1401	46.8	5.2	2156	22	US-10-644-765-102	Sequence 102, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1402	46.8	5.2	3023	21	US-10-956-157-1996	Sequence 1996, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1403	46.8	5.2	3023	22	US-10-287-436A-289	Sequence 289, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1404	46.8	5.2	3444	20	US-10-723-860-6025	Sequence 6025, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1405	46.8	5.2	8244	19	US-10-437-963-85878	Sequence 85878, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1406	46.8	5.2	8375	15	US-10-311-455-1051	Sequence 1051, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1407	46.8	5.2	15749	20	US-10-723-860-6482	Sequence 6482, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1408	46.8	5.2	3673778	16	US-10-312-841-2	Sequence 2, Appl1	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1409	46.6	5.2	239	20	US-10-357-930-56521	Sequence 56521, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1410	46.6	5.2	243	20	US-10-425-115-123033	Sequence 123033, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1411	46.6	5.2	264	10	US-09-814-353-5826	Sequence 5826, Ap	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1412	46.6	5.2	264	10	US-09-814-353-12108	Sequence 12108, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1413	46.6	5.2	320	20	US-10-425-115-24328	Sequence 24328, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1414	46.6	5.2	356	20	US-10-425-115-91521	Sequence 91521, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1415	46.6	5.2	360	20	US-10-357-930-49220	Sequence 49220, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1416	46.6	5.2	377	18	US-10-424-599-81255	Sequence 81255, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
c1417	46.6	5.2	377	11	US-09-969-034-450	Sequence 450, App	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1
1418	46.6	5.2	390	10	US-09-918-995-16470	Sequence 16470, A	c1452	46.6	5.2	1844	14	US-10-213-145-1	Sequence 1, Appl1

Search completed: September 28, 2005, 15:55:06
Job time : 539 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 28, 2005, 11:04:58 ; Search time 142 Seconds
(without alignments)
10290.106 Million cell updates/sec

Title: US-09-989-730-400

Perfect score: 893

Sequence: 1 gtcagccagtcgctgctct.....aaaaaaaaaaaaaaaaaaaa 893

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database :

Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	843.4	94.4	875	US-09-919-039-349	Sequence 349, App
2	704	78.8	990	US-09-369-247-16	Sequence 16, Appl
3	701.4	78.5	707	US-09-799-451-35	Sequence 35, Appl
4	528.8	59.2	708	US-09-799-451-36	Sequence 36, Appl
5	512.2	57.4	1372	US-09-976-594-869	Sequence 869, Appl
6	142.6	16.0	298	US-09-621-976-17767	Sequence 17767, A
7	56.4	6.3	1926	US-09-249-585A-2	Sequence 2, Appli
8	56.4	6.3	1926	US-09-410-399-3	Sequence 3, Appli
9	56.4	6.3	2580	US-09-050-863-2	Sequence 2, Appli
10	56.4	6.3	2580	US-09-359-081-2	Sequence 1, Appli
11	56.4	6.3	5452	US-09-130-114-1	Sequence 14, Appl
12	56.4	6.3	8705	US-09-647-344B-14	Sequence 1, Appli
13	56.4	6.3	9600	US-08-910-647-1	Sequence 1, Appli
14	56.4	6.3	9600	US-07-620-925-1	Sequence 1, Appli
15	56.4	6.3	10596	US-07-884-811-15	Sequence 15, Appl
16	56.4	6.3	10596	US-07-885-971-15	Sequence 15, Appl
17	56.4	6.3	10596	US-08-087-783A-15	Sequence 15, Appl
18	56.4	6.3	10596	US-08-194-088B-15	Sequence 15, Appl
19	56.4	6.3	10596	US-08-194-087-15	Sequence 15, Appl
20	56.4	6.3	10596	PCT-US93-0464B-15	Sequence 15, Appl
21	56.4	6.3	16080	US-09-724-566A-48	Sequence 48, Appl
22	56.4	6.3	16080	US-09-471-669A-48	Sequence 48, Appl
23	51.8	5.8	1065	US-09-976-594-833	Sequence 833, App
24	51.6	5.8	7218	US-08-232-463-14	Sequence 14, Appl
25	51	5.7	141	US-09-621-976-8705	Sequence 8705, Ap
26	49.4	5.5	1307	US-08-960-022-17	Sequence 17, Appl
27	49.4	5.5	2235	US-09-902-540-8163	Sequence 8163, Ap

Sequence 838, App
Sequence 151, App
Sequence 151, App
Sequence 128, App
Sequence 128, App
Sequence 128, App
Sequence 93, Appl
Sequence 93, Appl
Sequence 75, Appl
Sequence 11, Appl
Sequence 512, Appl
Sequence 16, Appl
Sequence 1696, A
Sequence 12893, A
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 12505, A
Sequence 14207, A
Sequence 3, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 107, App
Sequence 3, Appli
Sequence 16099, A
Sequence 16100, A
Sequence 10009, A
Sequence 16581, A
Sequence 110, App
Sequence 110, App
Sequence 110, App
Sequence 26, Appl
Sequence 26, Appl
Sequence 26, Appl
Sequence 16779, A
Sequence 58, Appl
Sequence 28, Appl
Sequence 102, App
Sequence 81, Appl
Sequence 15960, A
Sequence 29, Appl
Sequence 23, Appl
Sequence 1, Appli
Sequence 13477, A
Sequence 3119, Ap
Sequence 4, Appli
Sequence 4, Appli
Sequence 30, Appl
Sequence 13076, A
Sequence 17553, A
Sequence 5, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 24, Appl
Sequence 24, Appl
Sequence 74, Appl
Sequence 15, Appl
Sequence 15, Appl
Sequence 14091, A
Sequence 15094, A
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 14033, A
Sequence 12777, A
Sequence 16536, A

101	45.6	5.1	3489	2	US-08-728-323A-1	Sequence 1, Appli	174	44.6	5.0	1931	4	US-09-865-364-1	Sequence 1, Appli
102	45.6	5.1	3489	3	US-09-298-568-1	Sequence 1, Appli	175	44.6	5.0	1931	4	US-09-748-537-2	Sequence 2, Appli
103	45.6	5.1	3489	4	US-09-410-399-1	Sequence 1, Appli	176	44.6	5.0	2017	4	US-09-690-454-45	Sequence 45, Appli
104	45.6	5.1	3489	4	US-09-894-273-1	Sequence 1, Appli	177	44.6	5.0	2114	1	US-07-803-622E-6	Sequence 6, Appli
c 105	45.6	5.1	32207	2	US-08-770-379-20	Sequence 20, Appli	178	44.6	5.0	3366	4	US-09-586-141C-6	Sequence 6, Appli
c 106	45.6	5.1	32207	3	US-08-757-669A-20	Sequence 20, Appli	179	44.6	5.0	3366	4	US-09-595-526C-6	Sequence 6, Appli
c 107	45.6	5.1	32207	3	US-09-230-371A-20	Sequence 20, Appli	180	44.6	5.0	4931	3	US-08-726-320-2	Sequence 2, Appli
c 108	45.4	5.1	334	2	US-09-033-684-8	Sequence 8, Appli	181	44.6	5.0	4931	3	US-09-208-716-2	Sequence 2, Appli
c 109	45.4	5.1	334	4	US-09-644-460-8	Sequence 8, Appli	182	44.6	5.0	6409	4	US-09-967-908A-1	Sequence 1, Appli
110	45.4	5.1	763	4	US-09-743-207-3	Sequence 3, Appli	183	44.6	5.0	6409	4	US-10-159-151-1	Sequence 1, Appli
111	45.4	5.1	1866	4	US-09-205-258-66	Sequence 66, Appli	184	44.6	5.0	7463	4	US-09-902-540-928	Sequence 928, App
112	45.4	5.1	3007	4	US-09-810-268-1	Sequence 1, Appli	185	44.6	5.0	10442	4	US-09-586-141C-1	Sequence 1, Appli
113	45.4	5.1	7065	4	US-09-874-923-115	Sequence 115, App	186	44.6	5.0	10442	4	US-09-595-526C-1	Sequence 1, Appli
114	45.2	5.1	237	4	US-09-621-976-10277	Sequence 10277, A	187	44.6	5.0	10474	4	US-09-596-141C-7	Sequence 7, Appli
115	45.2	5.1	261	4	US-09-621-976-18330	Sequence 18330, A	188	44.6	5.0	10474	4	US-09-596-141C-9	Sequence 9, Appli
116	45.2	5.1	271	4	US-09-621-976-10380	Sequence 10380, A	189	44.6	5.0	10474	4	US-09-595-526C-7	Sequence 7, Appli
117	45.2	5.1	276	4	US-09-621-976-18329	Sequence 18329, A	190	44.6	5.0	10474	4	US-09-595-526C-9	Sequence 9, Appli
118	45.2	5.1	341	4	US-09-621-976-11000	Sequence 11000, A	191	44.6	5.0	139552	4	US-09-949-016-15300	Sequence 15300, A
c 119	45.2	5.1	1917	4	US-09-614-912-173	Sequence 173, App	c 192	44.6	5.0	202111	4	US-09-949-016-13877	Sequence 13877, A
120	45.2	5.1	2405	1	US-08-454-097-30	Sequence 30, Appli	193	44.4	5.0	530	4	US-09-461-325-28	Sequence 28, Appli
121	45.2	5.1	2405	3	US-08-185-359-30	Sequence 30, Appli	194	44.4	5.0	530	4	US-10-012-542-28	Sequence 28, Appli
122	45.2	5.1	2772	4	US-09-949-016-1042	Sequence 1042, Ap	195	44.4	5.0	530	4	US-10-115-123-28	Sequence 28, Appli
123	45.2	5.1	3437	3	US-08-860-338-17	Sequence 17, Appli	c 196	44.4	5.0	613	4	US-09-902-540-3080	Sequence 3080, Ap
124	45.2	5.1	3437	4	US-09-578-623-17	Sequence 17, Appli	197	44.4	5.0	1192	4	US-09-949-016-554	Sequence 554, App
125	45.2	5.1	3437	4	US-10-208-349-17	Sequence 17, Appli	198	44.4	5.0	1315	3	US-09-164-193-1	Sequence 1, Appli
126	45.2	5.1	6200	3	US-09-439-923-1	Sequence 1, Appli	199	44.4	5.0	1315	3	US-09-221-448A-1	Sequence 1, Appli
127	45.2	5.1	6200	4	US-09-711-202A-1	Sequence 1, Appli	200	44.4	5.0	1446	4	US-09-593-359-1	Sequence 1, Appli
128	45.2	5.1	6200	4	US-09-711-205A-1	Sequence 1, Appli	201	44.4	5.0	1581	3	US-09-313-300-1	Sequence 1, Appli
129	45.2	5.1	43992	4	US-09-949-016-12172	Sequence 12172, A	202	44.4	5.0	2045	3	US-09-152-060-22	Sequence 22, Appli
130	45.2	5.1	43993	4	US-09-949-016-13406	Sequence 13406, A	203	44.4	5.0	2186	3	US-09-360-545-66	Sequence 66, Appli
131	45.2	5.1	177293	4	US-09-949-016-16513	Sequence 16513, A	204	44.4	5.0	2516	4	US-09-393-634-4	Sequence 4, Appli
132	45	5.0	231	4	US-09-621-976-16317	Sequence 16317, A	205	44.4	5.0	2943	3	US-09-949-016-766	Sequence 766, App
133	45	5.0	242	4	US-09-621-976-16320	Sequence 16320, A	206	44.4	5.0	2943	3	US-09-404-879A-385	Sequence 385, App
134	45	5.0	242	4	US-09-621-976-16324	Sequence 16324, A	207	44.4	5.0	2943	3	US-09-667-857-385	Sequence 385, App
135	45	5.0	289	3	US-09-007-005-17	Sequence 17, Appli	208	44.4	5.0	3136	4	US-09-680-728-1	Sequence 1, Appli
136	45	5.0	289	3	US-09-244-796-17	Sequence 17, Appli	209	44.4	5.0	3136	4	US-10-017-066A-1	Sequence 1, Appli
137	45	5.0	443	4	US-09-936-885A-1	Sequence 1, Appli	210	44.4	5.0	4064	4	US-09-873-737A-3	Sequence 3, Appli
138	45	5.0	826	3	US-09-227-357-102	Sequence 102, App	211	44.4	5.0	6638	2	US-08-070-301-2	Sequence 2, Appli
139	45	5.0	2017	3	US-09-291-922-21	Sequence 21, Appli	c 212	44.4	5.0	7151	4	US-09-902-540-861	Sequence 861, App
140	45	5.0	300598	4	US-09-949-016-11868	Sequence 11868, A	c 213	44.4	5.0	35678	4	US-09-949-016-12786	Sequence 12786, A
141	45	5.0	302604	4	US-09-949-016-14588	Sequence 14588, A	c 214	44.4	5.0	35678	4	US-09-949-016-16757	Sequence 16757, A
142	45	5.0	302604	4	US-09-949-016-14589	Sequence 14589, A	c 215	44.4	5.0	35678	4	US-09-949-016-16758	Sequence 16758, A
143	45	5.0	308362	4	US-09-949-016-17119	Sequence 17119, A	c 216	44.4	5.0	58361	4	US-09-949-016-16756	Sequence 16756, A
144	44.8	5.0	132	4	US-09-621-976-13468	Sequence 13468, A	c 217	44.4	5.0	58361	4	US-09-949-016-12501	Sequence 12501, A
145	44.8	5.0	157	4	US-09-621-976-16781	Sequence 16781, A	c 218	44.4	5.0	71815	4	US-09-949-016-16344	Sequence 16344, A
146	44.8	5.0	190	4	US-09-621-976-16784	Sequence 16784, A	c 219	44.4	5.0	73519	4	US-09-949-016-11769	Sequence 11769, A
147	44.8	5.0	240	4	US-09-621-976-11148	Sequence 11148, A	c 220	44.4	5.0	105919	4	US-09-949-016-11769	Sequence 11769, A
148	44.8	5.0	832	3	US-09-152-060-27	Sequence 27, Appli	221	44.2	4.9	162	4	US-09-621-976-7813	Sequence 7813, Ap
149	44.8	5.0	1039	4	US-09-464-535-23	Sequence 23, Appli	222	44.2	4.9	191	4	US-09-621-976-16760	Sequence 16760, A
150	44.8	5.0	1509	3	US-09-149-476-179	Sequence 179, App	223	44.2	4.9	194	4	US-09-621-976-16537	Sequence 16537, A
151	44.8	5.0	2060	4	US-09-345-473E-5	Sequence 5, Appli	224	44.2	4.9	284	4	US-09-621-976-2901	Sequence 2901, Ap
152	44.8	5.0	2428	4	US-09-731-166-5	Sequence 5, Appli	225	44.2	4.9	491	4	US-09-311-021-191	Sequence 191, App
153	44.8	5.0	2575	4	US-09-716-129-25	Sequence 25, Appli	226	44.2	4.9	601	4	US-09-949-016-64656	Sequence 64656, A
154	44.8	5.0	2584	4	US-09-716-129-47	Sequence 47, Appli	227	44.2	4.9	795	4	US-09-270-767-14068	Sequence 14068, A
155	44.6	5.0	728	3	US-09-091-097-5	Sequence 5, Appli	228	44.2	4.9	1035	2	US-08-580-545B-3	Sequence 3, Appli
c 156	44.6	5.0	1472	4	US-09-270-767-14650	Sequence 14650, A	229	44.2	4.9	1035	3	US-09-621-976-16537	Sequence 3, Appli
157	44.6	5.0	1503	4	US-09-907-794A-220	Sequence 220, App	230	44.2	4.9	1035	3	US-08-867-484A-1	Sequence 1, Appli
158	44.6	5.0	1503	4	US-09-905-125A-220	Sequence 220, App	231	44.2	4.9	1035	4	US-09-834-659-1	Sequence 1, Appli
159	44.6	5.0	1503	4	US-09-902-775A-220	Sequence 220, App	232	44.2	4.9	1035	4	US-09-760-892-1	Sequence 1, Appli
160	44.6	5.0	1503	4	US-09-908-700-220	Sequence 220, App	233	44.2	4.9	1035	4	US-09-834-656-1	Sequence 1, Appli
161	44.6	5.0	1503	4	US-09-903-603A-220	Sequence 220, App	234	44.2	4.9	1315	3	US-09-721-822A-10	Sequence 10, Appli
162	44.6	5.0	1503	4	US-09-904-920A-220	Sequence 220, App	235	44.2	4.9	1370	3	US-09-026-408-12	Sequence 12, Appli
163	44.6	5.0	1503	4	US-09-909-064-220	Sequence 220, App	236	44.2	4.9	1370	4	US-09-902-684-12	Sequence 12, Appli
164	44.6	5.0	1503	4	US-09-905-381A-220	Sequence 220, App	237	44.2	4.9	1371	3	US-09-026-408-1	Sequence 1, Appli
165	44.6	5.0	1503	4	US-09-906-618-220	Sequence 220, App	238	44.2	4.9	1371	4	US-09-902-684-1	Sequence 1, Appli
166	44.6	5.0	1505	1	US-07-915-246-1	Sequence 1, Appli	239	44.2	4.9	1408	4	US-10-000-489-111	Sequence 111, App
167	44.6	5.0	1676	4	US-09-902-540-8746	Sequence 8746, Ap	240	44.2	4.9	1540	4	US-09-560-761B-3	Sequence 3, Appli
168	44.6	5.0	1931	3	US-09-019-942-2	Sequence 2, Appli	241	44.2	4.9	2218	4	US-09-016-434-1157	Sequence 1157, Ap
169	44.6	5.0	1931	3	US-09-099-041A-1	Sequence 1, Appli	242	44.2	4.9	2218	4	US-10-329-668-7	Sequence 7, Appli
170	44.6	5.0	1931	3	US-09-245-281-1	Sequence 1, Appli	243	44.2	4.9	2233	1	US-08-496-631-1	Sequence 1, Appli
171	44.6	5.0	1931	3	US-09-470-271-2	Sequence 2, Appli	244	44.2	4.9	2719	3	US-08-706-216-1	Sequence 1, Appli
172	44.6	5.0	1931	4	US-09-207-359B-1	Sequence 1, Appli	245	44.2	4.9	2719	4	US-09-650-284B-1	Sequence 1, Appli
173	44.6	5.0	1931	4	US-09-340-620A-1	Sequence 1, Appli	246	44.2	4.9	30350	4	US-10-118-328-3	Sequence 3, Appli

247	44.2	4.9	93894	4	US-09-949-016-13629	Sequence 13629, A	320	43.4	4.9	383	4	US-09-621-976-18856	Sequence 18856, A
C 248	44	4.9	65	3	US-09-415-784-32	Sequence 32, Appl	321	43.4	4.9	391	4	US-09-621-976-18858	Sequence 18858, A
C 249	44	4.9	65	3	US-09-415-785A-32	Sequence 32, Appl	322	43.4	4.9	601	4	US-09-949-016-166672	Sequence 166672
C 250	44	4.9	65	3	US-08-944-465-32	Sequence 32, Appl	323	43.4	4.9	938	4	US-09-828-995B-25	Sequence 25, Appl
C 251	44	4.9	65	3	US-09-415-868-32	Sequence 32, Appl	324	43.4	4.9	938	4	US-09-828-995B-27	Sequence 27, Appl
C 252	44	4.9	65	3	US-09-415-900-32	Sequence 32, Appl	325	43.4	4.9	949	4	US-09-489-847-35	Sequence 35, Appl
C 253	44	4.9	65	4	US-09-507-362-32	Sequence 32, Appl	326	43.4	4.9	1034	4	US-09-311-021-105	Sequence 105, Appl
254	44	4.9	141	4	US-09-621-976-17446	Sequence 17446, A	327	43.4	4.9	1248	4	US-09-489-847-101	Sequence 101, Appl
255	44	4.9	214	4	US-09-621-976-9843	Sequence 9843, A	328	43.4	4.9	1414	4	US-09-501-115-5	Sequence 5, Appl
256	44	4.9	286	4	US-09-774-639-47	Sequence 47, Appl	329	43.4	4.9	1588	4	US-09-490-291-7	Sequence 7, Appl
257	44	4.9	381	4	US-09-621-976-16650	Sequence 16650, A	330	43.4	4.9	1653	3	US-09-345-469-2	Sequence 2, Appl
C 258	44	4.9	495	4	US-09-220-132-186	Sequence 186, App	331	43.4	4.9	1660	4	US-09-461-325-129	Sequence 129, App
259	44	4.9	619	4	US-08-514-014-7	Sequence 58, Appl	332	43.4	4.9	1660	4	US-10-012-542-129	Sequence 129, App
260	44	4.9	966	1	US-08-514-014-7	Sequence 7, Appl	333	43.4	4.9	1660	4	US-10-115-123-129	Sequence 129, App
261	44	4.9	966	2	US-08-514-014-7	Sequence 7, Appl	334	43.4	4.9	1736	3	US-09-182-816-22	Sequence 22, Appl
262	44	4.9	1379	4	US-09-461-325-124	Sequence 124, App	335	43.4	4.9	1736	3	US-09-182-816-22	Sequence 22, Appl
263	44	4.9	1379	4	US-10-012-542-124	Sequence 124, App	336	43.4	4.9	1736	3	US-09-471-528-22	Sequence 22, Appl
264	44	4.9	1379	4	US-10-115-123-124	Sequence 124, App	337	43.4	4.9	1736	3	US-09-471-528-22	Sequence 22, Appl
265	44	4.9	1922	4	US-09-311-021-53	Sequence 53, Appl	338	43.4	4.9	1736	3	US-09-634-530-22	Sequence 22, Appl
266	44	4.9	2205	3	US-08-888-077A-41	Sequence 41, Appl	339	43.4	4.9	1736	3	US-09-634-530-22	Sequence 22, Appl
267	44	4.9	2955	4	US-09-350-457A-3	Sequence 3, Appl	340	43.4	4.9	1817	2	US-08-473-981A-5	Sequence 5, Appl
268	44	4.9	18947	4	US-09-949-016-15106	Sequence 15106, A	341	43.4	4.9	1817	2	US-08-473-981A-5	Sequence 5, Appl
C 269	44	4.9	33639	4	US-09-949-016-15106	Sequence 15106, A	342	43.4	4.9	2158	2	US-08-698-551-1	Sequence 1, Appl
270	43.8	4.9	130	4	US-09-621-976-17455	Sequence 17455, A	343	43.4	4.9	2158	2	US-08-602-228-1	Sequence 1, Appl
271	43.8	4.9	131	4	US-09-621-976-17455	Sequence 17455, A	344	43.4	4.9	2158	2	US-08-602-228-1	Sequence 1, Appl
272	43.8	4.9	140	4	US-09-621-976-17449	Sequence 17449, A	345	43.4	4.9	2158	2	US-08-494-440B-1	Sequence 1, Appl
273	43.8	4.9	148	4	US-09-621-976-17449	Sequence 17449, A	346	43.4	4.9	2158	2	US-08-533-901B-1	Sequence 1, Appl
274	43.8	4.9	148	4	US-09-621-976-17450	Sequence 17450, A	347	43.4	4.9	2158	2	US-08-839-032A-1	Sequence 1, Appl
275	43.8	4.9	1451	4	US-09-621-976-17451	Sequence 17451, A	348	43.4	4.9	2158	2	US-08-839-032A-1	Sequence 1, Appl
276	43.8	4.9	133	4	US-09-621-976-10543	Sequence 10543, A	349	43.4	4.9	2158	3	US-09-185-258C-1	Sequence 1, Appl
277	43.8	4.9	413	4	US-09-774-639-28	Sequence 28, Appl	350	43.4	4.9	2158	5	PCT-US95-12724-1	Sequence 1, Appl
278	43.8	4.9	601	4	US-09-949-016-166673	Sequence 166673, A	351	43.4	4.9	2420	5	PCT-US93-00227-1	Sequence 1, Appl
279	43.8	4.9	634	4	US-09-774-639-97	Sequence 97, Appl	352	43.4	4.9	78630	4	US-09-949-016-16790	Sequence 16790, A
280	43.8	4.9	1117	3	US-09-247-373B-33	Sequence 33, Appl	353	43.4	4.9	87734	4	US-09-949-016-17521	Sequence 17521, A
281	43.8	4.9	1279	3	US-09-248-335-25	Sequence 25, Appl	354	43.4	4.9	186959	4	US-09-949-016-13125	Sequence 13125, A
282	43.8	4.9	1325	1	US-08-306-691B-51	Sequence 51, Appl	355	43.4	4.8	80	3	US-09-284-627-23	Sequence 23, Appl
283	43.8	4.9	1325	2	US-08-464-517-1	Sequence 1, Appl	356	43.2	4.8	105	3	US-09-284-627-23	Sequence 23, Appl
284	43.8	4.9	1325	2	US-08-246-361A-1	Sequence 1, Appl	357	43.2	4.8	178	4	US-09-621-976-15322	Sequence 15322, A
285	43.8	4.9	1325	3	US-08-463-772-1	Sequence 1, Appl	358	43.2	4.8	178	4	US-09-621-976-15322	Sequence 15322, A
286	43.8	4.9	1325	5	PCT-US93-05000-1	Sequence 1, Appl	359	43.2	4.8	226	4	US-09-621-976-10450	Sequence 10450, A
287	43.8	4.9	1325	4	US-09-482-273-29	Sequence 29, Appl	360	43.2	4.8	253	4	US-09-621-976-12799	Sequence 12799, A
288	43.8	4.9	1910	2	US-09-009-438-1	Sequence 1, Appl	361	43.2	4.8	328	4	US-09-621-976-16143	Sequence 16143, A
289	43.8	4.9	1910	3	US-09-207-493-1	Sequence 1, Appl	362	43.2	4.8	342	3	US-09-385-982-342	Sequence 342, App
290	43.8	4.9	2020	3	US-09-716-129-29	Sequence 29, Appl	363	43.2	4.8	395	3	US-09-195-108-21	Sequence 21, Appl
291	43.8	4.9	2830	2	US-09-010-928B-1	Sequence 1, Appl	364	43.2	4.8	396	4	US-09-713-550-70	Sequence 70, Appl
292	43.8	4.9	3116	4	US-09-904-615-43	Sequence 43, Appl	365	43.2	4.8	396	4	US-09-825-294-70	Sequence 70, Appl
293	43.8	4.9	10660	2	US-08-267-803B-8	Sequence 8, Appl	366	43.2	4.8	396	4	US-09-970-966-70	Sequence 70, Appl
294	43.8	4.9	10660	3	US-09-041-886-16	Sequence 16, Appl	367	43.2	4.8	588	4	US-09-205-258-64	Sequence 64, Appl
295	43.8	4.9	32010	4	US-09-949-016-13127	Sequence 13127, A	368	43.2	4.8	601	4	US-09-949-016-62045	Sequence 62045, A
C 296	43.8	4.9	36618	4	US-09-949-016-12961	Sequence 12961, A	369	43.2	4.8	601	4	US-09-949-016-62046	Sequence 62046, A
C 297	43.8	4.9	59319	4	US-09-949-016-16115	Sequence 16115, A	370	43.2	4.8	647	4	US-09-495-050A-54	Sequence 54, Appl
C 298	43.8	4.9	96202	4	US-09-949-016-16433	Sequence 16433, A	371	43.2	4.8	732	3	US-09-149-476-66	Sequence 66, Appl
299	43.6	4.9	166	4	US-09-621-976-18390	Sequence 18390, A	372	43.2	4.8	890	4	US-09-621-976-2725	Sequence 2725, Ap
300	43.6	4.9	173	4	US-09-621-976-15319	Sequence 15319, A	373	43.2	4.8	972	3	US-09-549-831-5	Sequence 5, Appl
301	43.6	4.9	180	4	US-09-621-976-15320	Sequence 15320, A	374	43.2	4.8	1174	2	US-08-872-437-1	Sequence 1, Appl
302	43.6	4.9	194	4	US-09-621-976-15317	Sequence 15317, A	375	43.2	4.8	1174	3	US-08-651-136C-11	Sequence 11, Appl
303	43.6	4.9	425	4	US-09-621-976-16712	Sequence 16712, A	376	43.2	4.8	1174	3	US-09-229-911A-11	Sequence 11, Appl
304	43.6	4.9	666	4	US-09-902-540-7702	Sequence 7702, Ap	377	43.2	4.8	1223	3	US-09-154-874-4	Sequence 4, Appl
305	43.6	4.9	742	1	US-07-847-010-12	Sequence 12, Appl	378	43.2	4.8	1223	3	US-08-931-668-4	Sequence 4, Appl
306	43.6	4.9	974	2	US-08-504-459-13	Sequence 13, Appl	379	43.2	4.8	1223	4	US-09-468-175-4	Sequence 4, Appl
307	43.6	4.9	1196	4	US-09-270-767-14804	Sequence 14804, A	380	43.2	4.8	1332	3	US-09-149-476-112	Sequence 112, App
308	43.6	4.9	1206	3	US-09-465-558-53	Sequence 53, Appl	381	43.2	4.8	1332	3	US-09-057-762-1	Sequence 1, Appl
309	43.6	4.9	1697	4	US-09-345-473B-7	Sequence 7, Appl	382	43.2	4.8	1332	3	US-08-326-119A-1	Sequence 1, Appl
310	43.6	4.9	1745	3	US-09-388-349-5	Sequence 5, Appl	383	43.2	4.8	1486	4	US-09-461-325-73	Sequence 73, Appl
311	43.6	4.9	1798	3	US-09-797-906-1	Sequence 1, Appl	384	43.2	4.8	1486	4	US-10-012-542-73	Sequence 73, Appl
312	43.6	4.9	2349	4	US-09-805-455-1	Sequence 1, Appl	385	43.2	4.8	1486	4	US-10-115-123-73	Sequence 73, Appl
313	43.6	4.9	4890	4	US-09-677-046A-3	Sequence 3, Appl	386	43.2	4.8	1537	3	US-09-149-476-311	Sequence 311, App
314	43.6	4.9	6100	4	US-09-949-016-11939	Sequence 11939, A	387	43.2	4.8	1537	3	US-09-280-116-10	Sequence 10, Appl
315	43.6	4.9	6100	4	US-09-949-016-16584	Sequence 16584, A	388	43.2	4.8	1553	3	US-09-672-785-3	Sequence 3, Appl
C 316	43.6	4.9	6404	4	US-09-902-540-760	Sequence 760, App	389	43.2	4.8	1730	4	US-09-227-357-31	Sequence 31, Appl
317	43.6	4.9	58782	4	US-09-949-016-16851	Sequence 16851, A	390	43.2	4.8	2095	3	US-09-227-357-31	Sequence 31, Appl
318	43.4	4.9	159	4	US-09-621-976-17448	Sequence 17448, A	391	43.2	4.8	2262	4	US-09-311-021-171	Sequence 171, Appl
319	43.4	4.9	377	4	US-09-621-976-18854	Sequence 18854, A	392	43.2	4.8	2285	2	US-08-967-101-136	Sequence 136, App

393	43.2	4.8	2285	2	US-08-592-541-136	Sequence 136, App	466	43	4.8	12523	4	US-09-991-258-1	Sequence 1, Appli
394	43.2	4.8	2285	3	US-09-124-698-136	Sequence 136, App	467	43	4.8	13584	4	US-09-991-258-17	Sequence 17, Appli
395	43.2	4.8	2285	3	US-09-127-480-136	Sequence 136, App	468	43	4.8	13905	3	US-08-972-218-1	Sequence 1, Appli
396	43.2	4.8	2285	3	US-09-124-523-136	Sequence 136, App	469	43	4.8	13905	4	US-09-193-707-1	Sequence 1, Appli
397	43.2	4.8	2285	4	US-09-636-796A-136	Sequence 136, App	470	43	4.8	15722	4	US-09-949-016-16709	Sequence 16709, A
398	43.2	4.8	2445	4	US-09-949-016-781	Sequence 781, App	471	43	4.8	25333	4	US-09-949-016-14059	Sequence 14059, A
399	43.2	4.8	2539	4	US-10-144-198-21	Sequence 21, Appli	472	43	4.8	39085	4	US-09-949-016-14479	Sequence 14479, A
400	43.2	4.8	3238	3	US-08-123-934A-5	Sequence 5, Appli	C 473	43	4.8	39088	4	US-09-949-016-14373	Sequence 14373, A
401	43.2	4.8	3238	5	US-09-874-628-5	Sequence 5, Appli	C 474	43	4.8	48018	4	US-09-949-016-17573	Sequence 17573, A
402	43.2	4.8	3238	4	PCT-US94-10080-5	Sequence 5, Appli	C 475	43	4.8	77388	4	US-09-949-016-13496	Sequence 13496, A
403	43.2	4.8	3242	3	US-09-493-914-2	Sequence 2, Appli	C 476	43	4.8	115388	4	US-09-949-016-14981	Sequence 14981, A
C 404	43.2	4.8	4055	4	US-09-620-312D-706	Sequence 706, App	C 477	43	4.8	137771	4	US-09-949-016-14982	Sequence 14982, A
405	43.2	4.8	4874	4	US-09-187-330-2	Sequence 2, Appli	C 478	43	4.8	146401	4	US-09-949-016-16151	Sequence 16151, A
406	43.2	4.8	6112	4	US-09-495-714C-3	Sequence 3, Appli	C 479	43	4.8	187136	4	US-09-949-016-17231	Sequence 17231, A
407	43.2	4.8	99370	4	US-09-949-016-12816	Sequence 12816, A	C 480	43	4.8	333753	4	US-09-949-016-14573	Sequence 14573, A
408	43.2	4.8	99370	4	US-09-949-016-17540	Sequence 17540, A	C 481	43	4.8	333753	4	US-09-949-016-14574	Sequence 14574, A
C 409	43.2	4.8	236474	4	US-09-949-016-13418	Sequence 13418, A	C 482	43	4.8	818128	4	US-09-949-016-14546	Sequence 14546, A
C 410	43.2	4.8	314798	4	US-09-949-016-13539	Sequence 13539, A	C 483	43	4.8	818128	4	US-09-949-016-14547	Sequence 14547, A
411	43	4.8	117	4	US-09-621-976-9618	Sequence 9618, Ap	C 484	43	4.8	818128	4	US-09-949-016-14548	Sequence 14548, A
412	43	4.8	129	4	US-09-621-976-17454	Sequence 17454, A	C 485	43	4.8	818128	4	US-09-949-016-14549	Sequence 14549, A
413	43	4.8	144	4	US-09-621-976-17452	Sequence 17452, A	C 486	43	4.8	818128	4	US-09-949-016-14550	Sequence 14550, A
414	43	4.8	319	4	US-09-621-976-16129	Sequence 16129, A	C 487	43	4.8	818128	4	US-09-949-016-14551	Sequence 14551, A
415	43	4.8	572	4	US-09-696-169A-12	Sequence 12, Appli	C 488	43	4.8	818128	4	US-09-949-016-14552	Sequence 14552, A
C 416	43	4.8	601	4	US-09-949-016-59938	Sequence 59938, A	C 489	43	4.8	818128	4	US-09-949-016-14553	Sequence 14553, A
417	43	4.8	601	4	US-09-949-016-94523	Sequence 94523, A	C 490	43	4.8	818128	4	US-09-949-016-14554	Sequence 14554, A
C 418	43	4.8	601	4	US-09-949-016-117238	Sequence 117238, A	C 491	43	4.8	818128	4	US-09-949-016-14555	Sequence 14555, A
C 419	43	4.8	601	4	US-09-949-016-117307	Sequence 117307, A	C 492	43	4.8	818128	4	US-09-949-016-14556	Sequence 14556, A
C 420	43	4.8	776	4	US-09-902-331B-3	Sequence 3, Appli	C 493	43	4.8	818128	4	US-09-949-016-14557	Sequence 14557, A
C 421	43	4.8	1025	4	US-09-774-639-13	Sequence 13, Appli	C 494	43	4.8	818128	4	US-09-949-016-14558	Sequence 14558, A
C 422	43	4.8	1047	1	US-08-403-378B-3	Sequence 3, Appli	C 495	43	4.8	818128	4	US-09-949-016-14559	Sequence 14559, A
423	43	4.8	1065	4	US-09-774-639-102	Sequence 102, App	C 496	43	4.8	818128	4	US-09-949-016-14560	Sequence 14560, A
424	43	4.8	1095	4	US-09-774-639-60	Sequence 60, Appli	C 497	43	4.8	818128	4	US-09-949-016-14561	Sequence 14561, A
425	43	4.8	1193	3	US-09-372-422A-23	Sequence 23, Appli	C 498	43	4.8	818128	4	US-09-949-016-14562	Sequence 14562, A
426	43	4.8	1308	4	US-10-151-832-1	Sequence 1, Appli	C 499	43	4.8	818128	4	US-09-949-016-14564	Sequence 14564, A
427	43	4.8	1320	4	US-09-148-545-110	Sequence 110, App	C 500	43	4.8	818128	4	US-09-949-016-14565	Sequence 14565, A
428	43	4.8	1501	3	US-09-196-520-1	Sequence 1, Appli	C 501	43	4.8	818128	4	US-09-949-016-14566	Sequence 14566, A
429	43	4.8	1531	3	US-09-461-325-32	Sequence 32, Appli	C 502	43	4.8	818128	4	US-09-949-016-14567	Sequence 14567, A
430	43	4.8	1531	4	US-10-012-542-32	Sequence 32, Appli	503	42.8	4.8	105	2	US-08-735-381-2	Sequence 2, Appli
431	43	4.8	1531	4	US-10-115-123-32	Sequence 32, Appli	504	42.8	4.8	105	3	US-09-183-619-1	Sequence 1, Appli
432	43	4.8	1544	4	US-09-187-999-14	Sequence 14, Appli	505	42.8	4.8	105	3	US-09-201-674-2	Sequence 2, Appli
433	43	4.8	1565	4	US-09-417-251A-17	Sequence 17, App	506	42.8	4.8	130	4	US-09-621-976-12892	Sequence 12892, A
434	43	4.8	1670	4	US-09-023-655-980	Sequence 980, App	507	42.8	4.8	159	4	US-09-621-976-17192	Sequence 17182, A
435	43	4.8	1692	4	US-09-821-803A-5	Sequence 5, Appli	508	42.8	4.8	207	4	US-09-621-976-10240	Sequence 10240, A
436	43	4.8	1699	3	US-09-152-060-19	Sequence 19, Appli	509	42.8	4.8	299	4	US-09-621-976-16226	Sequence 16226, A
437	43	4.8	1723	4	US-09-461-325-98	Sequence 98, Appli	510	42.8	4.8	315	4	US-09-621-976-15329	Sequence 15329, A
438	43	4.8	1723	4	US-10-012-542-98	Sequence 98, App	511	42.8	4.8	362	4	US-09-621-976-16509	Sequence 16509, A
439	43	4.8	1723	4	US-10-115-123-98	Sequence 98, Appli	512	42.8	4.8	472	4	US-09-270-767-12212	Sequence 12212, A
440	43	4.8	2267	4	US-09-917-265A-107	Sequence 107, App	C 513	42.8	4.8	601	4	US-09-949-016-50473	Sequence 50473, A
C 441	43	4.8	2267	4	US-09-917-265A-109	Sequence 109, App	C 514	42.8	4.8	601	4	US-09-949-016-50475	Sequence 50475, A
C 442	43	4.8	2314	3	US-08-105-454-1	Sequence 1, Appli	C 515	42.8	4.8	601	4	US-09-949-016-127577	Sequence 127577, A
C 443	43	4.8	2314	4	US-09-949-016-772	Sequence 772, App	C 516	42.8	4.8	601	4	US-09-949-016-127914	Sequence 127914, A
444	43	4.8	2797	4	US-09-482-273-74	Sequence 74, Appli	C 517	42.8	4.8	601	4	US-09-949-016-179348	Sequence 179348, A
445	43	4.8	3159	3	US-09-437-056A-7	Sequence 7, Appli	C 518	42.8	4.8	601	4	US-09-949-016-179349	Sequence 179349, A
446	43	4.8	3200	1	US-08-444-405-1	Sequence 1, Appli	C 519	42.8	4.8	601	4	US-09-949-016-189491	Sequence 189491, A
447	43	4.8	3200	1	US-08-384-850-1	Sequence 1, Appli	520	42.8	4.8	748	1	US-08-361-467B-3	Sequence 3, Appli
448	43	4.8	4239	4	US-09-815-048-1	Sequence 1, Appli	521	42.8	4.8	748	1	US-08-484-332C-3	Sequence 3, Appli
449	43	4.8	5076	4	US-09-991-258-8	Sequence 8, Appli	522	42.8	4.8	748	1	US-09-205-258-186	Sequence 186, App
450	43	4.8	5989	4	US-09-991-258-11	Sequence 11, Appli	523	42.8	4.8	941	4	US-09-614-912-61	Sequence 61, Appli
451	43	4.8	7970	4	US-09-193-707-6	Sequence 6, Appli	524	42.8	4.8	1209	4	US-09-614-221A-3	Sequence 3, Appli
C 452	43	4.8	8230	4	US-09-949-016-14183	Sequence 14183, A	525	42.8	4.8	1355	4	US-08-991-426-3	Sequence 3, Appli
453	43	4.8	9521	3	US-08-972-218-2	Sequence 2, Appli	526	42.8	4.8	1654	3	US-08-991-426-3	Sequence 3, Appli
454	43	4.8	9521	4	US-09-193-707-2	Sequence 2, Appli	527	42.8	4.8	1654	4	US-08-649-006A-3	Sequence 3, Appli
455	43	4.8	9951	4	US-09-193-707-3	Sequence 3, Appli	528	42.8	4.8	1654	4	US-09-771-023-3	Sequence 3, Appli
456	43	4.8	10524	4	US-09-193-707-4	Sequence 4, Appli	529	42.8	4.8	1747	1	US-08-176-620A-1	Sequence 1, Appli
457	43	4.8	11282	4	US-09-733-042-1	Sequence 1, Appli	530	42.8	4.8	1747	2	US-08-463-862-1	Sequence 1, Appli
458	43	4.8	11740	3	US-09-415-784-103	Sequence 103, App	531	42.8	4.8	1747	2	US-08-461-985-1	Sequence 1, Appli
459	43	4.8	11740	3	US-09-415-785A-103	Sequence 103, App	532	42.8	4.8	1747	3	US-08-458-887-1	Sequence 1, Appli
460	43	4.8	11740	3	US-08-944-465-103	Sequence 103, App	533	42.8	4.8	1747	3	US-08-932-787B-1	Sequence 1, Appli
461	43	4.8	11740	3	US-09-415-868-103	Sequence 103, App	534	42.8	4.8	1747	3	US-08-932-012C-1	Sequence 1, Appli
462	43	4.8	11740	3	US-09-415-900-103	Sequence 103, App	535	42.8	4.8	2035	3	US-08-888-818C-1	Sequence 1, Appli
463	43	4.8	11740	4	US-09-507-362-103	Sequence 103, App	536	42.8	4.8	2038	4	US-09-149-476-316	Sequence 316, App
464	43	4.8	11927	4	US-09-193-707-5	Sequence 5, Appli	537	42.8	4.8	2346	3	US-09-895-723-6	Sequence 6, Appli
465	43	4.8	12379	4	US-09-991-258-14	Sequence 14, Appli	538	42.8	4.8	2346	3	US-09-149-476-193	Sequence 193, App

539	42.8	4.8	2442	US-09-575-081B-3	Sequence 3, Appli	612	42.4	4.7	229	4	US-09-589-184-195	Sequence 195, App
540	42.8	4.8	2550	5258287-23	Patent No. 5258287	613	42.4	4.7	229	4	US-09-658-824-195	Sequence 195, App
541	42.8	4.8	2550	5258287-23	Patent No. 5258287	614	42.4	4.7	231	4	US-09-621-976-16456	Sequence 16456, A
542	42.8	4.8	3812	US-09-784-316-1	Sequence 1, Appli	615	42.4	4.7	323	4	US-09-621-976-16131	Sequence 16131, A
543	42.8	4.8	3812	US-10-229-124-1	Sequence 1, Appli	616	42.4	4.7	327	4	US-09-621-976-16141	Sequence 16141, A
544	42.8	4.8	5232	US-08-972-927-1	Sequence 1, Appli	617	42.4	4.7	341	4	US-09-621-976-16135	Sequence 16135, A
c 545	42.8	4.8	8413	US-09-949-016-17440	Sequence 17440, A	618	42.4	4.7	347	4	US-09-621-976-16136	Sequence 16136, A
546	42.8	4.8	26007	US-09-949-016-17222	Sequence 17222, A	619	42.4	4.7	351	4	US-09-621-976-16140	Sequence 16140, A
547	42.8	4.8	33905	US-09-949-016-17678	Sequence 16788, A	620	42.4	4.7	367	4	US-09-621-976-16145	Sequence 16145, A
548	42.8	4.8	33519	US-09-949-016-17165	Sequence 17165, A	621	42.4	4.7	399	1	US-07-885-970A-13	Sequence 13, Appl
549	42.8	4.8	85963	US-09-949-016-13804	Sequence 13804, A	622	42.4	4.7	399	1	US-08-298-687A-13	Sequence 13, Appl
c 550	42.8	4.8	86877	US-09-949-016-15431	Sequence 15431, A	c 623	42.4	4.7	399	1	US-08-330-797-12	Sequence 12, Appl
551	42.8	4.8	86877	US-09-949-016-15492	Sequence 15492, A	624	42.4	4.7	399	1	US-08-298-829-13	Sequence 13, Appl
c 552	42.8	4.8	88906	US-09-949-016-17468	Sequence 17468, A	c 625	42.4	4.7	399	2	US-08-787-335-12	Sequence 12, Appl
c 553	42.8	4.8	107937	US-09-949-016-17192	Sequence 17192, A	626	42.4	4.7	406	4	US-09-621-976-15107	Sequence 15107, A
554	42.8	4.8	198942	US-09-949-016-13209	Sequence 13209, A	627	42.4	4.7	474	3	US-08-516-859A-97	Sequence 97, Appl
c 555	42.8	4.8	27979	US-09-949-016-11842	Sequence 11842, A	628	42.4	4.7	474	3	US-09-586-472-97	Sequence 97, Appl
c 556	42.8	4.8	263693	US-09-949-016-12386	Sequence 12386, A	629	42.4	4.7	474	3	US-09-528-706-97	Sequence 97, Appl
557	42.8	4.8	263694	US-09-949-016-16915	Sequence 16915, A	630	42.4	4.7	563	4	US-09-621-976-19183	Sequence 19183, A
558	42.8	4.8	278866	US-09-949-016-13922	Sequence 13922, A	c 631	42.4	4.7	601	4	US-09-949-016-39283	Sequence 39283, A
559	42.8	4.8	278866	US-09-949-016-13923	Sequence 13923, A	c 632	42.4	4.7	601	4	US-09-949-016-50474	Sequence 50474, A
560	42.8	4.8	278866	US-09-949-016-13924	Sequence 13924, A	c 633	42.4	4.7	601	4	US-09-949-016-53509	Sequence 53509, A
561	42.8	4.8	278866	US-09-949-016-13925	Sequence 13925, A	634	42.4	4.7	601	4	US-09-949-016-120655	Sequence 120655, A
562	42.8	4.8	278866	US-09-949-016-13926	Sequence 13926, A	635	42.4	4.7	601	4	US-09-949-016-120656	Sequence 120656, A
563	42.8	4.8	278866	US-09-949-016-14699	Sequence 14699, A	c 636	42.4	4.7	601	4	US-09-949-016-128770	Sequence 128770, A
564	42.8	4.8	278866	US-09-949-016-14700	Sequence 14700, A	c 637	42.4	4.7	601	4	US-09-949-016-128771	Sequence 128771, A
565	42.8	4.8	278866	US-09-949-016-14701	Sequence 14701, A	c 638	42.4	4.7	601	4	US-09-949-016-175118	Sequence 175118, A
566	42.8	4.8	278866	US-09-949-016-14702	Sequence 14702, A	639	42.4	4.7	601	4	US-09-949-016-198458	Sequence 198458, A
567	42.8	4.8	278866	US-09-949-016-14703	Sequence 14703, A	640	42.4	4.7	687	4	US-09-774-639-106	Sequence 106, App
568	42.8	4.8	304533	US-09-949-016-15371	Sequence 15371, A	641	42.4	4.7	700	3	US-09-152-060-26	Sequence 26, Appl
569	42.8	4.8	304533	US-09-949-016-15372	Sequence 15372, A	642	42.4	4.7	769	4	US-08-567-882-5	Sequence 5, Appl
570	42.6	4.8	194	US-09-621-976-801	Sequence 801, App	643	42.4	4.7	865	4	US-09-205-258-227	Sequence 227, App
571	42.6	4.8	244	US-09-621-976-848	Sequence 848, App	644	42.4	4.7	1184	4	US-09-489-847-76	Sequence 76, Appl
572	42.6	4.8	388	US-09-621-976-18573	Sequence 18573, A	645	42.4	4.7	1307	3	US-09-250-609-3	Sequence 3, Appl
573	42.6	4.8	399	US-09-621-976-9484	Sequence 9484, Ap	646	42.4	4.7	1307	4	US-09-250-611-3	Sequence 3, Appl
574	42.6	4.8	600	US-09-774-639-44	Sequence 44, Appl	647	42.4	4.7	1443	4	US-09-904-615-21	Sequence 21, Appl
575	42.6	4.8	601	US-09-949-016-94522	Sequence 94522, A	648	42.4	4.7	1543	4	US-09-559-023-1	Sequence 1, Appl
c 576	42.6	4.8	601	US-09-949-016-139328	Sequence 139328, A	649	42.4	4.7	1696	4	US-09-835-811-1	Sequence 1, Appl
c 577	42.6	4.8	601	US-09-949-016-139329	Sequence 139329, A	650	42.4	4.7	1753	4	US-09-436-699C-15	Sequence 15, Appl
578	42.6	4.8	776	US-09-774-639-101	Sequence 101, App	651	42.4	4.7	1919	4	US-09-614-913-175	Sequence 175, App
579	42.6	4.8	990	US-09-800-729-79	Sequence 79, Appl	652	42.4	4.7	2065	3	US-09-370-473-5	Sequence 5, Appl
580	42.6	4.8	1114	US-09-152-060-41	Sequence 41, Appl	653	42.4	4.7	2182	4	US-09-214-619-3	Sequence 3, Appl
581	42.6	4.8	1841	PCT-US95-00363-1	Sequence 1, Appli	654	42.4	4.7	2182	4	US-09-555-820A-11	Sequence 11, Appl
582	42.6	4.8	1951	US-09-465-558-35	Sequence 35, Appl	655	42.4	4.7	2287	4	US-09-949-016-134	Sequence 134, App
583	42.6	4.8	2120	US-09-344-882-29	Sequence 29, Appl	656	42.4	4.7	2308	4	US-09-917-254-27	Sequence 27, Appl
584	42.6	4.8	3080	US-09-099-041A-25	Sequence 25, Appl	657	42.4	4.7	3202	3	US-09-394-200-1	Sequence 1, Appli
585	42.6	4.8	3080	US-09-245-281-25	Sequence 25, Appl	658	42.4	4.7	3320	4	US-10-047-757-1	Sequence 1, Appli
586	42.6	4.8	3080	US-09-207-359B-25	Sequence 25, Appl	c 659	42.4	4.7	4586	1	US-08-832-883-53	Sequence 53, Appl
587	42.6	4.8	3080	US-09-865-364-25	Sequence 25, Appl	c 660	42.4	4.7	4586	2	US-08-832-877-53	Sequence 53, Appl
588	42.6	4.8	3080	US-09-340-620A-25	Sequence 25, Appl	661	42.4	4.7	5021	4	US-09-949-016-786	Sequence 786, App
589	42.6	4.8	3829	US-08-631-097-8	Sequence 8, Appli	c 662	42.4	4.7	5048	4	US-09-949-016-13273	Sequence 13273, A
590	42.6	4.8	3829	US-08-810-712-6	Sequence 6, Appli	663	42.4	4.7	7812	3	US-09-368-590-1	Sequence 1, Appli
591	42.6	4.8	5335	US-10-154-595-17	Sequence 17, Appl	c 664	42.4	4.7	17616	4	US-09-949-016-13170	Sequence 13170, A
592	42.6	4.8	5334	US-10-164-595-21	Sequence 21, Appl	665	42.4	4.7	17629	4	US-09-949-016-11788	Sequence 11788, A
c 593	42.6	4.8	5581	US-10-164-595-19	Sequence 19, Appl	c 666	42.4	4.7	20079	4	US-09-949-016-16060	Sequence 16060, A
c 594	42.6	4.8	24741	US-09-949-016-15547	Sequence 15547, A	667	42.4	4.7	23091	4	US-09-902-540-1204	Sequence 1204, Ap
c 595	42.6	4.8	32327	US-09-949-016-14108	Sequence 14108, A	c 668	42.4	4.7	37711	4	US-09-949-016-12832	Sequence 12832, A
c 596	42.6	4.8	34755	US-09-949-016-15797	Sequence 15797, A	c 669	42.4	4.7	37712	4	US-09-949-016-16704	Sequence 16704, A
c 597	42.6	4.8	34755	US-09-949-016-12808	Sequence 12808, A	c 670	42.4	4.7	44947	4	US-09-949-016-12018	Sequence 12018, A
c 598	42.6	4.8	80269	US-09-949-016-15681	Sequence 15681, A	c 671	42.4	4.7	44947	4	US-09-949-016-13101	Sequence 13101, A
c 599	42.6	4.8	192506	US-09-949-016-15830	Sequence 15830, A	c 672	42.4	4.7	47493	4	US-09-949-016-13241	Sequence 13241, A
c 600	42.6	4.8	422592	US-09-949-016-14182	Sequence 14182, A	c 673	42.4	4.7	65848	4	US-09-949-016-16158	Sequence 16158, A
c 601	42.6	4.8	678533	US-09-949-016-14577	Sequence 14577, A	c 674	42.4	4.7	78219	4	US-09-949-016-13285	Sequence 13285, A
c 602	42.6	4.8	678533	US-09-949-016-14578	Sequence 14578, A	c 675	42.4	4.7	79221	4	US-09-949-016-12755	Sequence 12755, A
603	42.4	4.7	109	US-09-621-976-14592	Sequence 14592, A	676	42.4	4.7	128516	4	US-09-949-016-13501	Sequence 13501, A
604	42.4	4.7	117	US-09-621-976-9850	Sequence 9850, Ap	677	42.4	4.7	13357	4	US-09-949-016-12541	Sequence 12541, A
605	42.4	4.7	137	US-09-621-976-17184	Sequence 17184, A	c 678	42.4	4.7	134987	4	US-09-949-016-15348	Sequence 15348, A
606	42.4	4.7	138	US-09-621-976-9595	Sequence 9595, Ap	c 679	42.4	4.7	134987	4	US-09-949-016-15348	Sequence 15348, A
607	42.4	4.7	177	US-09-621-976-1047	Sequence 1047, Ap	c 680	42.4	4.7	134987	4	US-09-949-016-15350	Sequence 15350, A
608	42.4	4.7	229	US-09-702-705-195	Sequence 195, App	c 681	42.4	4.7	134987	4	US-09-949-016-15507	Sequence 15507, A
609	42.4	4.7	229	US-09-736-457-195	Sequence 195, App	c 682	42.4	4.7	134987	4	US-09-949-016-15508	Sequence 15508, A
610	42.4	4.7	229	US-09-614-124B-195	Sequence 195, App	c 683	42.4	4.7	134987	4	US-09-949-016-15509	Sequence 15509, A
611	42.4	4.7	229	US-09-671-325-195	Sequence 195, App	c 684	42.4	4.7	146307	4	US-09-949-016-14881	Sequence 14881, A

685 42.4 4.7 146307 4 US-09-949-016-14882 Sequence 14882, A
686 42.4 4.7 146307 4 US-09-949-016-14883 Sequence 14883, A
687 42.4 4.7 146307 4 US-09-949-016-14884 Sequence 14884, A
688 42.4 4.7 146307 4 US-09-949-016-14885 Sequence 14885, A
689 42.4 4.7 146307 4 US-09-949-016-14886 Sequence 14886, A
690 42.4 4.7 146307 4 US-09-949-016-14887 Sequence 14887, A
691 42.4 4.7 146307 4 US-09-949-016-14888 Sequence 14888, A
692 42.4 4.7 148405 4 US-09-949-016-11747 Sequence 11747, A
693 42.4 4.7 148405 4 US-09-949-016-12835 Sequence 12835, A
694 42.4 4.7 148405 4 US-09-949-016-12836 Sequence 12836, A
695 42.4 4.7 148405 4 US-09-949-016-12837 Sequence 12837, A
696 42.4 4.7 193303 4 US-09-497-855A-37 Sequence 37, Appl
697 42.4 4.7 193303 4 US-09-497-855A-44 Sequence 44, Appl
698 42.4 4.7 194790 4 US-09-949-016-15393 Sequence 15393, A
699 42.4 4.7 200663 4 US-09-949-016-12569 Sequence 12569, A
700 42.4 4.7 209210 4 US-09-949-016-15094 Sequence 15094, A
701 42.4 4.7 767677 4 US-09-949-016-12147 Sequence 12147, A
702 42.4 4.7 767677 4 US-09-949-016-17361 Sequence 17361, A
703 42.2 4.7 348 4 US-09-621-976-16137 Sequence 16137, A
704 42.2 4.7 375 4 US-08-946-026-23 Sequence 23, Appl
705 42.2 4.7 397 4 US-09-621-976-18571 Sequence 18571, A
706 42.2 4.7 558 4 US-09-902-540-1969 Sequence 1969, Ap
707 42.2 4.7 599 3 US-09-328-111-147 Sequence 147, Appl
708 42.2 4.7 601 4 US-09-949-016-82773 Sequence 82773, A
709 42.2 4.7 601 4 US-09-949-016-82774 Sequence 82774, A
710 42.2 4.7 601 4 US-09-949-016-139327 Sequence 139327, A
711 42.2 4.7 657 4 US-09-902-540-4122 Sequence 4122, Ap
712 42.2 4.7 712 3 US-09-266-225D-3 Sequence 3, Appl
713 42.2 4.7 1154 3 US-08-651-136C-7 Sequence 7, Appl
714 42.2 4.7 1502 3 US-09-229-911A-7 Sequence 7, Appl
715 42.2 4.7 1502 4 US-09-369-247-33 Sequence 33, Appl
716 42.2 4.7 1660 4 US-09-722-971-9 Sequence 9, Appl
717 42.2 4.7 1865 3 US-09-370-253-5 Sequence 5, Appl
718 42.2 4.7 1868 3 US-09-739-455-1 Sequence 1, Appl
719 42.2 4.7 1895 3 US-09-444-336-7 Sequence 7, Appl
720 42.2 4.7 2002 3 US-09-819-993-1 Sequence 1, Appl
721 42.2 4.7 2002 4 US-10-193-295-1 Sequence 1, Appl
722 42.2 4.7 2002 4 US-10-622-516-1 Sequence 1, Appl
723 42.2 4.7 2096 3 US-09-008-481A-10 Sequence 10, Appl
724 42.2 4.7 2096 3 US-09-195-666A-16 Sequence 16, Appl
725 42.2 4.7 2096 3 US-09-309-592-10 Sequence 10, Appl
726 42.2 4.7 2096 3 US-09-635-705-16 Sequence 16, Appl
727 42.2 4.7 2096 3 US-09-634-858A-16 Sequence 16, Appl
728 42.2 4.7 2096 4 US-08-869-927C-16 Sequence 16, Appl
729 42.2 4.7 2227 4 US-09-489-847-30 Sequence 30, Appl
730 42.2 4.7 2718 4 US-09-667-135-1 Sequence 1, Appl
731 42.2 4.7 3056 4 US-09-814-915A-12 Sequence 12, Appl
732 42.2 4.7 3145 4 US-09-949-016-1149 Sequence 1149, Ap
733 42.2 4.7 3214 1 US-08-484-105-17 Sequence 17, Appl
734 42.2 4.7 3214 1 US-08-484-106-17 Sequence 17, Appl
735 42.2 4.7 5883 4 US-09-949-016-5001 Sequence 5001, Ap
736 42.2 4.7 14367 4 US-09-902-540-1113 Sequence 1113, Ap
737 42.2 4.7 38052 4 US-09-949-016-13825 Sequence 13825, A
738 42.2 4.7 40261 4 US-09-949-016-11773 Sequence 11773, A
739 42.2 4.7 40265 4 US-09-949-016-16168 Sequence 16168, A
740 42.2 4.7 47181 4 US-09-949-016-16131 Sequence 16131, A
741 42.2 4.7 47181 4 US-09-949-016-16132 Sequence 16132, A
742 42.2 4.7 47181 4 US-09-949-016-16133 Sequence 16133, A
743 42.2 4.7 49440 4 US-09-949-016-14150 Sequence 14150, A
744 42.2 4.7 64190 4 US-09-949-016-14712 Sequence 14712, A
745 42.2 4.7 64190 4 US-09-949-016-14713 Sequence 14713, A
746 42.2 4.7 65518 4 US-09-949-016-14241 Sequence 14241, A
747 42.2 4.7 161900 4 US-09-949-016-14101 Sequence 14101, A
748 42.2 4.7 161914 4 US-09-949-016-12906 Sequence 12906, A
749 42.2 4.7 323820 4 US-09-949-016-14139 Sequence 14139, A
750 42.2 4.7 134 4 US-09-621-976-18433 Sequence 18433, A
751 42 4.7 137 4 US-09-621-976-18434 Sequence 18434, A
752 42 4.7 137 4 US-09-621-976-18434 Sequence 18434, A
753 42 4.7 193 4 US-09-621-976-16535 Sequence 16535, A
754 42 4.7 195 4 US-09-621-976-15314 Sequence 15314, A
755 42 4.7 322 4 US-09-621-976-16142 Sequence 16142, A
756 42 4.7 568 1 US-08-582-257-20 Sequence 20, Appl
757 42 4.7 568 2 US-08-582-257-20 Sequence 20, Appl

c 758 42 4.7 577 3 US-09-385-982-203 Sequence 203, App
759 42 4.7 601 4 US-09-949-016-63383 Sequence 63383, A
760 42 4.7 601 4 US-09-949-016-63384 Sequence 63384, A
c 761 42 4.7 601 4 US-09-949-016-87681 Sequence 87681, A
762 42 4.7 601 4 US-09-949-016-87681 Sequence 87681, A
763 42 4.7 607 4 US-09-949-016-183201 Sequence 183201, A
764 42 4.7 615 4 US-09-809-545A-19 Sequence 19, Appl
765 42 4.7 759 4 US-09-902-540-8780 Sequence 8780, Ap
766 42 4.7 760 4 US-09-455-559-5 Sequence 5, Appl
767 42 4.7 831 4 US-09-205-258-232 Sequence 232, App
768 42 4.7 831 4 US-09-205-258-75 Sequence 75, Appl
769 42 4.7 991 3 US-09-780-717-4 Sequence 4, Appl
770 42 4.7 991 3 US-09-780-717-4 Sequence 4, Appl
771 42 4.7 991 3 US-09-247-373B-25 Sequence 25, Appl
772 42 4.7 1037 4 US-09-286-715-25 Sequence 25, Appl
773 42 4.7 1048 4 US-09-489-847-112 Sequence 112, App
774 42 4.7 1066 1 US-09-489-847-38 Sequence 38, Appl
775 42 4.7 1075 3 US-08-157-101A-4 Sequence 4, Appl
776 42 4.7 1075 3 US-08-400-006B-6 Sequence 6, Appl
777 42 4.7 1196 4 US-09-452-239-41 Sequence 41, Appl
778 42 4.7 1215 4 US-09-065-040-2 Sequence 2, Appl
779 42 4.7 1286 2 US-09-646-693-1 Sequence 1, Appl
780 42 4.7 1386 3 US-08-897-340-1 Sequence 1, Appl
781 42 4.7 1507 3 US-09-252-329-1 Sequence 1, Appl
782 42 4.7 1619 4 US-09-453-323-1 Sequence 1, Appl
783 42 4.7 1619 4 US-09-388-413B-5 Sequence 5, Appl
784 42 4.7 1720 3 US-10-233-745-5 Sequence 5, Appl
785 42 4.7 1748 4 US-09-227-357-139 Sequence 139, App
786 42 4.7 1804 2 US-08-635-967-1 Sequence 1, Appl
787 42 4.7 1882 3 US-08-504-459-5 Sequence 5, Appl
788 42 4.7 1910 3 US-09-370-253-1 Sequence 1, Appl
789 42 4.7 1977 3 US-08-974-691-7 Sequence 7, Appl
790 42 4.7 2218 4 US-09-227-357-83 Sequence 83, Appl
791 42 4.7 2399 3 US-09-265-258-103 Sequence 103, App
792 42 4.7 2589 3 US-09-385-801-1 Sequence 1, Appl
793 42 4.7 2589 5 US-08-569-749-1 Sequence 1, Appl
794 42 4.7 2668 3 PCT-US96-12860-1 Sequence 1, Appl
795 42 4.7 2668 3 US-09-370-838-156 Sequence 156, App
796 42 4.7 2790 3 US-09-854-133-156 Sequence 156, App
797 42 4.7 4765 3 US-08-800-291B-1 Sequence 1, Appl
798 42 4.7 4765 3 US-08-936-135-21 Sequence 21, Appl
799 42 4.7 4765 3 US-09-439-711C-21 Sequence 21, Appl
800 42 4.7 4780 3 US-08-936-135-23 Sequence 23, Appl
801 42 4.7 4780 4 US-09-439-711C-23 Sequence 23, Appl
802 42 4.7 5170 4 US-09-677-046A-5 Sequence 5, Appl
803 42 4.7 6671 1 US-08-280-443-1 Sequence 1, Appl
804 42 4.7 6671 1 US-08-457-459-1 Sequence 1, Appl
805 42 4.7 6671 1 US-08-555-678-1 Sequence 1, Appl
806 42 4.7 6671 5 PCT-US95-02275-1 Sequence 1, Appl
807 42 4.7 7170 4 US-09-902-540-933 Sequence 933, App
808 42 4.7 44244 4 US-09-949-016-11743 Sequence 11743, A
809 42 4.7 44245 4 US-09-949-016-13579 Sequence 13579, A
c 810 42 4.7 45842 4 US-09-949-016-12550 Sequence 12550, A
c 811 42 4.7 45842 4 US-09-949-016-17327 Sequence 17327, A
812 42 4.7 86439 4 US-09-949-016-11945 Sequence 11945, A
813 42 4.7 86440 4 US-09-949-016-11945 Sequence 11945, A
814 42 4.7 94133 4 US-09-949-016-16990 Sequence 16990, A
815 42 4.7 94133 4 US-09-949-016-11271 Sequence 11271, A
816 42 4.7 94135 4 US-09-949-016-15934 Sequence 15934, A
817 42 4.7 94135 4 US-09-949-016-15935 Sequence 15935, A
818 42 4.7 94135 4 US-09-949-016-15936 Sequence 15936, A
819 42 4.7 94135 4 US-09-949-016-15937 Sequence 15937, A
c 820 42 4.7 421118 4 US-09-949-016-16297 Sequence 16297, Ap
821 41.8 4.7 104 4 US-09-621-976-8092 Sequence 8092, Ap
822 41.8 4.7 177 4 US-09-621-976-16813 Sequence 16813, A
823 41.8 4.7 266 4 US-09-621-976-16426 Sequence 16426, A
824 41.8 4.7 317 4 US-09-621-976-16434 Sequence 16434, A
825 41.8 4.7 334 4 US-09-621-976-16434 Sequence 16434, A
826 41.8 4.7 351 4 US-09-621-976-15134 Sequence 15134, A
827 41.8 4.7 382 4 US-09-621-976-18855 Sequence 18855, A
c 828 41.8 4.7 396 4 US-09-621-976-18855 Sequence 18855, A
c 829 41.8 4.7 396 4 US-09-640-173-19 Sequence 19, Appl
c 830 41.8 4.7 396 4 US-09-640-173-27 Sequence 27, Appl
c 830 41.8 4.7 396 4 US-09-640-173-42 Sequence 42, Appl

Sequence 203, App
Sequence 63383, A
Sequence 63384, A
Sequence 87681, A
Sequence 183201, A
Sequence 19, Appl
Sequence 8780, Ap
Sequence 5, Appl
Sequence 232, App
Sequence 75, Appl
Sequence 4, Appl
Sequence 25, Appl
Sequence 25, Appl
Sequence 112, App
Sequence 38, Appl
Sequence 4, Appl
Sequence 6, Appl
Sequence 41, Appl
Sequence 2, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 5, Appl
Sequence 5, Appl
Sequence 139, App
Sequence 1, Appl
Sequence 5, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 156, App
Sequence 156, App
Sequence 1, Appl
Sequence 21, Appl
Sequence 21, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 5, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 1, Appl
Sequence 933, App
Sequence 11743, A
Sequence 13579, A
Sequence 12550, A
Sequence 17327, A
Sequence 11945, A
Sequence 16990, A
Sequence 11501, A
Sequence 12713, A
Sequence 15934, A
Sequence 15935, A
Sequence 15936, A
Sequence 15937, A
Sequence 16297, Ap
Sequence 8073, Ap
Sequence 16813, A
Sequence 16426, A
Sequence 16434, A
Sequence 15134, A
Sequence 18855, A
Sequence 19, Appl
Sequence 27, Appl
Sequence 42, Appl

C 831	4	41.8	4.7	396	Sequence 19, Appl	904	41.6	4.7	166	4	US-09-621-976-8651	Sequence 8651, Ap
C 832	4	41.8	4.7	396	Sequence 27, Appl	905	41.6	4.7	182	4	US-09-621-976-16234	Sequence 16234, A
C 833	4	41.8	4.7	396	Sequence 42, Appl	906	41.6	4.7	191	4	US-09-621-976-13456	Sequence 13456, A
C 834	4	41.8	4.7	396	Sequence 19, Appl	907	41.6	4.7	139	4	US-09-702-705-102	Sequence 102, App
C 835	4	41.8	4.7	396	Sequence 27, Appl	908	41.6	4.7	139	4	US-09-736-457-102	Sequence 102, App
C 836	4	41.8	4.7	396	Sequence 42, Appl	909	41.6	4.7	139	4	US-09-614-124B-102	Sequence 102, App
C 837	4	41.8	4.7	396	Sequence 19, Appl	910	41.6	4.7	139	4	US-09-671-325-102	Sequence 102, App
C 838	4	41.8	4.7	396	Sequence 27, Appl	911	41.6	4.7	139	4	US-09-589-184-102	Sequence 102, App
C 839	4	41.8	4.7	396	Sequence 42, Appl	912	41.6	4.7	139	4	US-09-558-824-102	Sequence 102, App
840	4	41.8	4.7	444	Sequence 44, Appl	913	41.6	4.7	208	1	US-08-586-878A-37	Sequence 37, Appl
841	4	41.8	4.7	675	Sequence 21, Appl	914	41.6	4.7	208	3	US-09-175-528-37	Sequence 37, Appl
842	4	41.8	4.7	780	Sequence 36, Appl	915	41.6	4.7	215	4	US-09-621-976-15321	Sequence 15321, A
843	4	41.8	4.7	780	Sequence 36, Appl	916	41.6	4.7	328	4	US-09-621-976-16144	Sequence 16144, A
C 844	4	41.8	4.7	844	Sequence 3, Appl	C 917	41.6	4.7	396	4	US-09-640-173-10	Sequence 10, Appl
845	4	41.8	4.7	1024	Sequence 50, Appl	C 918	41.6	4.7	396	4	US-09-713-550-10	Sequence 10, Appl
846	4	41.8	4.7	1069	Sequence 74, Appl	C 919	41.6	4.7	396	4	US-09-825-294-10	Sequence 10, Appl
847	4	41.8	4.7	1265	Sequence 169, App	C 920	41.6	4.7	396	4	US-09-970-966-10	Sequence 10, Appl
848	4	41.8	4.7	1265	Sequence 169, App	C 921	41.6	4.7	711	4	US-09-621-976-17854	Sequence 17854, A
849	4	41.8	4.7	1265	Sequence 169, App	922	41.6	4.7	773	3	US-09-149-476-20	Sequence 20, Appl
850	4	41.8	4.7	1265	Sequence 169, App	923	41.6	4.7	803	4	US-09-800-729-60	Sequence 60, Appl
851	4	41.8	4.7	1265	Sequence 169, App	924	41.6	4.7	831	4	US-09-904-615-25	Sequence 25, Appl
852	4	41.8	4.7	1265	Sequence 169, App	925	41.6	4.7	1001	1	US-08-728-259A-10	Sequence 10, Appl
853	4	41.8	4.7	1326	Sequence 1, Appl	926	41.6	4.7	1001	2	US-08-473-486-10	Sequence 10, Appl
854	4	41.8	4.7	1364	Sequence 3, Appl	927	41.6	4.7	1143	3	US-09-149-476-119	Sequence 119, App
855	4	41.8	4.7	1364	Sequence 3, Appl	928	41.6	4.7	1212	3	US-09-182-145-34	Sequence 34, Appl
856	4	41.8	4.7	1364	Sequence 3, Appl	929	41.6	4.7	1212	3	US-09-182-145-35	Sequence 35, Appl
857	4	41.8	4.7	1364	Sequence 3, Appl	930	41.6	4.7	1244	4	US-09-265-540B-3	Sequence 3, Appl
C 858	4	41.8	4.7	1387	Sequence 19, Appl	931	41.6	4.7	1332	3	US-09-333-423-1	Sequence 1, Appl
859	4	41.8	4.7	1395	Sequence 5, Appl	932	41.6	4.7	1335	3	US-09-740-028A-1	Sequence 1, Appl
860	4	41.8	4.7	1493	Sequence 24, Appl	933	41.6	4.7	1335	3	US-10-118-037-1	Sequence 1, Appl
861	4	41.8	4.7	1493	Sequence 24, Appl	934	41.6	4.7	1393	1	US-07-602-824A-1	Sequence 1, Appl
862	4	41.8	4.7	1505	Sequence 13, Appl	935	41.6	4.7	1393	1	US-07-983-451-1	Sequence 1, Appl
863	4	41.8	4.7	1602	Sequence 3, Appl	936	41.6	4.7	1393	1	US-08-261-577-6	Sequence 6, Appl
864	4	41.8	4.7	1602	Sequence 3, Appl	C 937	41.6	4.7	1416	4	US-09-302-540-7224	Sequence 7224, Ap
865	4	41.8	4.7	1602	Sequence 3, Appl	938	41.6	4.7	1454	4	US-09-614-912-63	Sequence 63, Appl
866	4	41.8	4.7	1602	Sequence 3, Appl	939	41.6	4.7	1734	3	US-09-073-569-1	Sequence 1, Appl
867	4	41.8	4.7	1602	Sequence 3, Appl	940	41.6	4.7	1794	3	US-09-342-647-3	Sequence 3, Appl
868	4	41.8	4.7	1746	Sequence 57, Appl	941	41.6	4.7	1913	4	US-09-461-325-470	Sequence 470, App
869	4	41.8	4.7	1768	Sequence 13, Appl	942	41.6	4.7	1913	4	US-10-012-542-470	Sequence 470, App
870	4	41.8	4.7	1842	Sequence 90, Appl	943	41.6	4.7	2355	3	US-10-115-123-470	Sequence 470, App
871	4	41.8	4.7	2049	Sequence 23, Appl	944	41.6	4.7	2355	3	US-08-871-572B-3	Sequence 3, Appl
872	4	41.8	4.7	2082	Sequence 2, Appl	945	41.6	4.7	2355	3	US-09-800-729-24	Sequence 24, Appl
873	4	41.8	4.7	2091	Sequence 1, Appl	946	41.6	4.7	2311	4	US-09-614-912-91	Sequence 91, Appl
874	4	41.8	4.7	2091	Sequence 1, Appl	947	41.6	4.7	2793	1	US-08-209-747-1	Sequence 1, Appl
875	4	41.8	4.7	2625	Sequence 10080, A	948	41.6	4.7	2793	1	US-08-458-298-1	Sequence 1, Appl
876	4	41.8	4.7	2665	Sequence 5, Appl	949	41.6	4.7	2851	3	US-09-535-521-1	Sequence 1, Appl
877	4	41.8	4.7	2931	Sequence 1, Appl	C 950	41.6	4.7	2851	3	US-09-535-521-3	Sequence 3, Appl
878	4	41.8	4.7	2931	Sequence 1, Appl	951	41.6	4.7	3686	4	US-09-949-016-906	Sequence 906, App
879	4	41.8	4.7	3124	Sequence 1, Appl	952	41.6	4.7	3994	4	US-09-738-946-7	Sequence 7, Appl
880	4	41.8	4.7	3124	Sequence 1, Appl	953	41.6	4.7	4235	4	US-09-702-705-317	Sequence 317, App
881	4	41.8	4.7	3124	Sequence 1, Appl	954	41.6	4.7	4235	4	US-09-736-457-317	Sequence 317, App
882	4	41.8	4.7	4665	Sequence 7, Appl	955	41.6	4.7	4235	4	US-09-614-124B-317	Sequence 317, App
883	4	41.8	4.7	4665	Sequence 7, Appl	956	41.6	4.7	4235	4	US-09-671-325-317	Sequence 317, App
884	4	41.8	4.7	4665	Sequence 7, Appl	957	41.6	4.7	4235	4	US-09-589-184-317	Sequence 317, App
885	4	41.8	4.7	15450	Sequence 1, Appl	958	41.6	4.7	4235	4	US-09-658-824-317	Sequence 317, App
C 886	4	41.8	4.7	29965	Sequence 11953, A	959	41.6	4.7	4377	4	US-09-902-540-676	Sequence 676, App
C 887	4	41.8	4.7	29966	Sequence 16728, A	960	41.6	4.7	4494	4	US-09-620-312D-861	Sequence 861, App
888	4	41.8	4.7	48181	Sequence 17583, A	961	41.6	4.7	4860	4	US-09-949-016-296	Sequence 296, App
889	4	41.8	4.7	62908	Sequence 17584, A	C 962	41.6	4.7	5613	2	US-08-463-418-1	Sequence 1, Appl
890	4	41.8	4.7	87774	Sequence 12821, A	963	41.6	4.7	5962	6	5386025-5	Patent No. 5386025
C 891	4	41.8	4.7	104077	Sequence 13593, A	964	41.6	4.7	5962	6	5386025-5	Patent No. 5386025
C 892	4	41.8	4.7	117001	Sequence 12683, A	965	41.6	4.7	5975	1	US-08-404-354B-1	Sequence 1, Appl
C 893	4	41.8	4.7	152524	Sequence 15684, A	966	41.6	4.7	5975	1	US-08-314-083B-1	Sequence 1, Appl
C 894	4	41.8	4.7	152524	Sequence 13194, A	967	41.6	4.7	5975	1	US-08-435-675B-1	Sequence 1, Appl
C 895	4	41.8	4.7	166698	Sequence 16038, A	968	41.6	4.7	5975	3	US-08-336-257A-3	Sequence 3, Appl
C 896	4	41.8	4.7	312957	Sequence 31, Appl	969	41.6	4.7	5975	3	US-08-884-599-1	Sequence 1, Appl
C 897	4	41.8	4.7	312972	Sequence 34, Appl	C 970	41.6	4.7	31739	4	US-09-949-016-16226	Sequence 16226, A
C 898	4	41.6	4.7	153	Sequence 7751, Ap	971	41.6	4.7	41736	4	US-09-949-016-17091	Sequence 17091, A
899	4	41.6	4.7	154	Sequence 7748, Ap	C 972	41.6	4.7	49971	4	US-09-949-016-16688	Sequence 16688, A
900	4	41.6	4.7	157	Sequence 10271, Ap	C 973	41.6	4.7	52667	4	US-09-949-016-15703	Sequence 15703, A
901	4	41.6	4.7	159	Sequence 8623, Ap	C 974	41.6	4.7	91538	4	US-09-949-016-12019	Sequence 12019, A
902	4	41.6	4.7	159	Sequence 8655, Ap	C 975	41.6	4.7	107140	4	US-09-949-016-14834	Sequence 14834, A
903	4	41.6	4.7	164	Sequence 8070, Ap	C 976	41.6	4.7	112507	4	US-09-949-016-12420	Sequence 12420, A

c 977	41.6	4.7	112507	4	US-09-949-016-12794	Sequence 12794, A	1050	41.4	4.6	1781	2	US-08-720-420A-2	Sequence 2, Appli
c 978	41.6	4.7	112508	4	US-09-949-016-16589	Sequence 16589, A	1051	41.4	4.6	1781	3	US-08-714-017-2	Sequence 2, Appli
c 979	41.6	4.7	112508	4	US-09-949-016-16590	Sequence 16590, A	1052	41.4	4.6	1781	3	US-08-863-790-2	Sequence 2, Appli
c 980	41.6	4.7	137776	4	US-09-949-001-29	Sequence 29, Appl	1053	41.4	4.6	1781	3	US-08-475-680-2	Sequence 2, Appli
c 981	41.6	4.7	144034	4	US-09-949-001-35	Sequence 35, Appl	1054	41.4	4.6	1781	3	US-08-296-749-2	Sequence 2, Appli
c 982	41.6	4.7	360470	4	US-09-949-016-13173	Sequence 13173, A	1055	41.4	4.6	1781	4	US-08-314-369-2	Sequence 2, Appli
c 983	41.6	4.7	455726	4	US-09-949-016-14157	Sequence 14157, A	1056	41.4	4.6	1937	4	US-09-647-143-1	Sequence 1, Appli
c 984	41.6	4.7	481115	4	US-09-949-016-11940	Sequence 11940, A	1057	41.4	4.6	1948	4	US-09-419-679-15	Sequence 15, Appl
c 985	41.4	4.6	164	4	US-09-949-016-11940	Sequence 1692, A	1058	41.4	4.6	1976	4	US-09-920-759-10	Sequence 10, Appl
c 986	41.4	4.6	222	3	US-08-481-190-15	Sequence 15, Appl	1059	41.4	4.6	2099	4	US-09-800-729-56	Sequence 56, Appl
c 987	41.4	4.6	222	5	PCT-US93-00869-15	Sequence 15, Appl	1060	41.4	4.6	2202	3	US-09-388-743-1	Sequence 1, Appli
c 988	41.4	4.6	534	4	US-09-696-169A-14	Sequence 14, Appl	1061	41.4	4.6	2202	4	US-10-044-543-1	Sequence 1, Appli
c 989	41.4	4.6	593	4	US-09-904-615-59	Sequence 59, Appl	1062	41.4	4.6	2230	3	US-08-378-313-24	Sequence 24, Appl
c 990	41.4	4.6	601	4	US-09-949-016-20267	Sequence 20267, A	1063	41.4	4.6	2369	4	US-09-057-996-13	Sequence 13, Appl
c 991	41.4	4.6	601	4	US-09-949-016-129076	Sequence 129076, A	1064	41.4	4.6	2453	4	US-09-455-486-5	Sequence 5, Appli
c 992	41.4	4.6	601	4	US-09-949-016-130515	Sequence 130515, A	1065	41.4	4.6	2567	3	US-08-993-260-4	Sequence 4, Appli
c 993	41.4	4.6	601	4	US-09-949-016-141107	Sequence 141107, A	1066	41.4	4.6	2621	3	US-09-949-016-1072	Sequence 1072, Ap
c 994	41.4	4.6	601	4	US-09-949-016-142813	Sequence 142813, A	1067	41.4	4.6	2628	1	US-08-143-219-1	Sequence 1, Appli
c 995	41.4	4.6	601	4	US-09-949-016-151913	Sequence 151913, A	1068	41.4	4.6	2821	4	US-09-702-705-1669	Sequence 1669, Ap
c 996	41.4	4.6	601	4	US-09-949-016-172254	Sequence 172254, A	1069	41.4	4.6	2821	4	US-09-736-457-1669	Sequence 1669, Ap
c 997	41.4	4.6	601	4	US-09-949-016-196499	Sequence 196499, A	1070	41.4	4.6	2821	4	US-09-671-325-1669	Sequence 1669, Ap
c 998	41.4	4.6	612	4	US-09-270-767-11643	Sequence 11643, A	1071	41.4	4.6	2823	1	US-08-398-008A-1	Sequence 1, Appli
c 999	41.4	4.6	687	4	US-09-774-639-45	Sequence 45, Appl	1072	41.4	4.6	2823	2	US-08-893-333-1	Sequence 1, Appli
c 1000	41.4	4.6	755	4	US-09-621-976-1858	Sequence 1858, Ap	1073	41.4	4.6	2968	3	US-09-813-819-1	Sequence 1, Appli
c 1001	41.4	4.6	960	4	US-09-526-400-3	Sequence 3, Appli	1074	41.4	4.6	2968	3	US-09-920-048-1	Sequence 1, Appli
c 1002	41.4	4.6	967	3	US-09-248-335-51	Sequence 51, Appl	1075	41.4	4.6	2968	4	US-10-014-501-1	Sequence 1, Appli
c 1003	41.4	4.6	1023	1	US-08-252-366B-16	Sequence 16, Appl	1076	41.4	4.6	3484	3	US-09-112-096-28	Sequence 28, Appl
c 1004	41.4	4.6	1052	4	US-09-489-847-23	Sequence 23, Appl	1077	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1005	41.4	4.6	1100	3	US-09-248-335-53	Sequence 53, Appl	1078	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1006	41.4	4.6	1182	4	US-09-526-400-1	Sequence 1, Appli	1079	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1007	41.4	4.6	1208	4	US-09-205-258-25	Sequence 25, Appl	1080	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1008	41.4	4.6	1271	4	US-09-905-5580-1	Sequence 1, Appli	1081	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1009	41.4	4.6	1277	4	US-09-461-325-20	Sequence 20, Appl	1082	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1010	41.4	4.6	1277	4	US-10-012-542-20	Sequence 20, Appl	1083	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1011	41.4	4.6	1277	4	US-10-115-123-20	Sequence 20, Appl	1084	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1012	41.4	4.6	1292	4	US-09-270-767-12238	Sequence 12238, A	1085	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1013	41.4	4.6	1302	4	US-09-322-409-91	Sequence 91, Appl	1086	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c1014	41.4	4.6	1302	4	US-09-322-409-93	Sequence 93, Appl	1087	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1015	41.4	4.6	1302	4	US-09-451-527-91	Sequence 91, Appl	1088	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c1016	41.4	4.6	1302	4	US-09-451-527-93	Sequence 93, Appl	1089	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1017	41.4	4.6	1302	4	US-09-719-108-5	Sequence 5, Appli	1090	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1018	41.4	4.6	1338	2	US-08-484-938-7	Sequence 7, Appli	c1091	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1019	41.4	4.6	1338	2	US-08-484-158B-7	Sequence 7, Appli	c1092	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1020	41.4	4.6	1338	2	US-08-484-596A-7	Sequence 7, Appli	c1093	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1021	41.4	4.6	1338	2	US-08-480-150A-7	Sequence 7, Appli	c1094	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1022	41.4	4.6	1338	3	US-08-458-731-7	Sequence 7, Appli	c1095	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1023	41.4	4.6	1338	3	US-08-149-223A-7	Sequence 7, Appli	c1096	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1024	41.4	4.6	1342	4	US-09-489-847-89	Sequence 89, Appl	c1097	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1025	41.4	4.6	1393	1	US-08-174-467-18	Sequence 18, Appl	c1098	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1026	41.4	4.6	1393	3	US-08-452-071-18	Sequence 18, Appl	c1099	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1027	41.4	4.6	1405	4	US-09-244-111-9	Sequence 11, Appl	c1100	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1028	41.4	4.6	1425	1	US-08-464-148-1	Sequence 1, Appli	c1101	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1029	41.4	4.6	1425	1	US-08-385-500-1	Sequence 1, Appli	c1102	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1030	41.4	4.6	1425	1	US-08-846-784-1	Sequence 1, Appli	c1103	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1031	41.4	4.6	1454	3	US-09-372-422A-19	Sequence 19, Appl	c1104	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1032	41.4	4.6	1508	3	US-09-039-046-1	Sequence 1, Appli	c1105	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1033	41.4	4.6	1606	4	US-09-820-004-1	Sequence 1, Appli	c1106	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1034	41.4	4.6	1636	4	US-09-578-194-6	Sequence 6, Appli	c1107	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1035	41.4	4.6	1639	2	US-08-737-524B-1	Sequence 1, Appli	c1108	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1036	41.4	4.6	1651	4	US-09-800-729-41	Sequence 41, Appl	c1109	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1037	41.4	4.6	1781	1	US-08-314-615-2	Sequence 2, Appli	c1110	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1038	41.4	4.6	1781	1	US-08-314-362-2	Sequence 2, Appli	c1111	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1039	41.4	4.6	1781	1	US-08-433-010-2	Sequence 2, Appli	c1112	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1040	41.4	4.6	1781	1	US-08-245-295-4	Sequence 4, Appli	c1113	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1041	41.4	4.6	1781	1	US-08-481-130-4	Sequence 4, Appli	c1114	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1042	41.4	4.6	1781	1	US-08-656-984A-4	Sequence 4, Appli	c1115	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1043	41.4	4.6	1781	1	US-08-482-882-2	Sequence 2, Appli	c1116	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1044	41.4	4.6	1781	1	US-08-485-604-4	Sequence 4, Appli	c1117	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1045	41.4	4.6	1781	1	US-08-483-389-2	Sequence 2, Appli	c1118	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1046	41.4	4.6	1781	2	US-08-487-1130-2	Sequence 2, Appli	c1119	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1047	41.4	4.6	1781	2	US-08-487-595-4	Sequence 4, Appli	c1120	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1048	41.4	4.6	1781	2	US-08-473-503-2	Sequence 2, Appli	c1121	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl
c 1049	41.4	4.6	1781	2	US-08-483-932-2	Sequence 2, Appli	c1122	41.4	4.6	3484	3	US-09-112-096-14	Sequence 14, Appl

1123	41.2	4.6	286	4	US-10-021-338A-35	Sequence 35, Appl	1196	41.2	4.6	2331	4	US-09-944-457-54	Sequence 54, Appl
c1124	41.2	4.6	300	4	US-09-270-767-10615	Sequence 10615, A	1197	41.2	4.6	2353	4	US-09-284-768A-19	Sequence 19, Appl
1125	41.2	4.6	326	4	US-09-621-976-16128	Sequence 16128, A	1198	41.2	4.6	2371	3	US-09-608-285A-46	Sequence 46, Appl
1126	41.2	4.6	329	4	US-09-621-976-16052	Sequence 16052, A	1199	41.2	4.6	2371	4	US-09-557-800C-46	Sequence 46, Appl
1127	41.2	4.6	350	4	US-09-621-976-16052	Sequence 16052, A	1200	41.2	4.6	2497	3	US-09-608-285A-51	Sequence 51, Appl
1128	41.2	4.6	413	3	US-09-227-357-71	Sequence 71, Appl	1201	41.2	4.6	2497	4	US-09-557-800C-51	Sequence 51, Appl
1129	41.2	4.6	433	1	US-07-987-272A-13	Sequence 13, Appl	1202	41.2	4.6	2581	4	US-09-369-247-51	Sequence 51, Appl
1130	41.2	4.6	515	4	US-09-130-158A-3	Sequence 3, Appl	1203	41.2	4.6	2606	3	US-09-234-827B-3	Sequence 3, Appl
1131	41.2	4.6	540	4	US-09-313-434C-15	Sequence 15, Appl	1204	41.2	4.6	2693	3	US-09-608-285A-48	Sequence 48, Appl
c1132	41.2	4.6	601	4	US-09-949-016-64153	Sequence 64153, A	1205	41.2	4.6	2693	4	US-09-557-800C-48	Sequence 48, Appl
c1133	41.2	4.6	601	4	US-09-949-016-64154	Sequence 64154, A	1206	41.2	4.6	2710	3	US-09-232-200-44	Sequence 44, Appl
c1134	41.2	4.6	601	4	US-09-949-016-64155	Sequence 64155, A	1207	41.2	4.6	2710	3	US-09-232-200-70	Sequence 70, Appl
1135	41.2	4.6	601	4	US-09-949-016-167173	Sequence 167173, A	1208	41.2	4.6	2710	3	US-09-232-197-44	Sequence 44, Appl
1136	41.2	4.6	601	4	US-09-949-016-206643	Sequence 206643, A	1209	41.2	4.6	2710	3	US-09-232-197-70	Sequence 70, Appl
1137	41.2	4.6	601	4	US-09-949-016-206644	Sequence 206644, A	1210	41.2	4.6	2710	3	US-09-232-201-44	Sequence 44, Appl
1138	41.2	4.6	674	4	US-09-620-405B-465	Sequence 465, App	1211	41.2	4.6	2710	3	US-09-232-201-70	Sequence 70, Appl
1139	41.2	4.6	674	4	US-09-433-825B-465	Sequence 465, App	1212	41.2	4.6	2710	4	US-09-232-195-44	Sequence 44, Appl
1140	41.2	4.6	674	4	US-09-604-287A-465	Sequence 465, App	1213	41.2	4.6	2710	4	US-09-232-195-70	Sequence 70, Appl
1141	41.2	4.6	674	4	US-09-834-759-465	Sequence 465, App	1214	41.2	4.6	2762	3	US-09-608-285A-26	Sequence 26, Appl
1142	41.2	4.6	674	4	US-09-590-751A-465	Sequence 465, App	1215	41.2	4.6	2762	3	US-09-608-285A-52	Sequence 52, Appl
1143	41.2	4.6	674	4	US-09-551-621-465	Sequence 465, App	1216	41.2	4.6	2762	3	US-09-240-639-1	Sequence 1, Appl
1144	41.2	4.6	753	4	US-09-902-331B-9	Sequence 9, Appl	1217	41.2	4.6	2762	3	US-09-370-265-26	Sequence 26, Appl
c1145	41.2	4.6	789	3	US-09-020-956-32	Sequence 32, Appl	1218	41.2	4.6	2762	4	US-09-557-800C-26	Sequence 26, Appl
c1146	41.2	4.6	789	3	US-09-030-607-32	Sequence 32, Appl	1219	41.2	4.6	2762	4	US-09-557-800C-52	Sequence 52, Appl
c1147	41.2	4.6	789	3	US-09-439-313-32	Sequence 32, Appl	1220	41.2	4.6	2762	4	US-09-370-625A-26	Sequence 26, Appl
c1148	41.2	4.6	789	3	US-09-352-616A-32	Sequence 32, Appl	1221	41.2	4.6	2762	4	US-09-908-510A-1	Sequence 1, Appl
c1149	41.2	4.6	789	3	US-09-232-149A-32	Sequence 32, Appl	1222	41.2	4.6	2762	4	US-09-905-744B-1	Sequence 1, Appl
c1150	41.2	4.6	789	4	US-09-159-812-32	Sequence 32, Appl	1223	41.2	4.6	2762	4	US-10-107-660-1	Sequence 1, Appl
c1151	41.2	4.6	789	4	US-09-636-215-32	Sequence 32, Appl	1224	41.2	4.6	2762	4	US-10-107-576-1	Sequence 1, Appl
c1152	41.2	4.6	789	4	US-09-683-166A-32	Sequence 32, Appl	1225	41.2	4.6	2762	4	US-09-905-732B-1	Sequence 1, Appl
c1153	41.2	4.6	789	4	US-09-115-453-32	Sequence 32, Appl	1226	41.2	4.6	2762	4	US-09-905-743B-1	Sequence 1, Appl
c1154	41.2	4.6	789	4	US-09-688-489-32	Sequence 32, Appl	1227	41.2	4.6	2805	3	US-09-608-285A-50	Sequence 50, Appl
c1155	41.2	4.6	789	4	US-09-679-426-32	Sequence 32, Appl	1228	41.2	4.6	2805	4	US-09-557-800C-50	Sequence 50, Appl
c1156	41.2	4.6	789	4	US-09-759-143-32	Sequence 32, Appl	1229	41.2	4.6	2882	3	US-09-608-285A-54	Sequence 54, Appl
c1157	41.2	4.6	789	4	US-09-651-236-32	Sequence 32, Appl	1230	41.2	4.6	2882	4	US-09-557-800C-54	Sequence 54, Appl
1158	41.2	4.6	812	3	US-09-091-097-7	Sequence 7, Appl	1231	41.2	4.6	2950	4	US-09-489-847-52	Sequence 52, Appl
1159	41.2	4.6	893	4	US-08-276-452A-66	Sequence 66, Appl	1232	41.2	4.6	2964	4	US-09-578-063-25	Sequence 25, Appl
1160	41.2	4.6	893	4	US-08-798-744-66	Sequence 66, Appl	1233	41.2	4.6	3047	2	US-09-873-737A-1	Sequence 1, Appl
1161	41.2	4.6	1133	2	US-09-916-204-1	Sequence 1, Appl	1234	41.2	4.6	3147	2	US-08-781-802-7	Sequence 7, Appl
1162	41.2	4.6	1133	4	US-10-283-048-1	Sequence 1, Appl	1235	41.2	4.6	3147	3	US-08-694-078-7	Sequence 7, Appl
1163	41.2	4.6	1181	3	US-09-149-476-310	Sequence 310, App	1236	41.2	4.6	3147	3	US-09-058-260-7	Sequence 7, Appl
1164	41.2	4.6	1212	3	US-09-476-476-186	Sequence 186, App	1237	41.2	4.6	3271	4	US-09-548-797B-1	Sequence 1, Appl
1165	41.2	4.6	1217	3	US-09-225-244-1	Sequence 1, Appl	1238	41.2	4.6	3375	3	US-09-511-625B-67	Sequence 67, Appl
1166	41.2	4.6	1217	3	US-09-417-242-1	Sequence 1, Appl	1239	41.2	4.6	3582	4	US-09-548-797B-3	Sequence 3, Appl
1167	41.2	4.6	1361	4	US-09-489-847-64	Sequence 64, Appl	1240	41.2	4.6	3637	1	US-08-445-640-3	Sequence 3, Appl
1168	41.2	4.6	1458	4	US-09-482-273-14	Sequence 14, Appl	1241	41.2	4.6	3637	3	US-08-170-558-3	Sequence 3, Appl
1169	41.2	4.6	1530	4	US-09-811-361-19	Sequence 19, Appl	1242	41.2	4.6	3637	3	US-08-447-314-3	Sequence 3, Appl
1170	41.2	4.6	1538	4	US-09-205-258-193	Sequence 193, App	1243	41.2	4.6	3637	3	US-08-445-461-3	Sequence 3, Appl
1171	41.2	4.6	1559	4	US-09-489-847-42	Sequence 42, Appl	1244	41.2	4.6	3637	4	US-09-223-490-3	Sequence 3, Appl
1172	41.2	4.6	1560	4	US-09-500-495A-5	Sequence 5, Appl	c1245	41.2	4.6	3684	4	US-09-252-991A-65	Sequence 65, Appl
1173	41.2	4.6	1687	1	US-08-143-219-26	Sequence 26, Appl	1246	41.2	4.6	3785	1	US-08-485-618-98	Sequence 98, Appl
1174	41.2	4.6	1707	4	US-09-311-021-51	Sequence 51, Appl	1247	41.2	4.6	3785	1	US-08-605-672-98	Sequence 98, Appl
1175	41.2	4.6	1776	3	US-08-655-352-10	Sequence 10, Appl	1248	41.2	4.6	3785	2	US-08-482-293A-98	Sequence 98, Appl
1176	41.2	4.6	1776	3	US-09-258-016-10	Sequence 10, Appl	1249	41.2	4.6	3785	2	US-08-943-363-97	Sequence 97, Appl
1177	41.2	4.6	1776	3	US-09-257-825B-10	Sequence 10, Appl	1250	41.2	4.6	3785	3	US-09-193-043-98	Sequence 98, Appl
1178	41.2	4.6	1864	4	US-09-819-607-1	Sequence 1, Appl	1251	41.2	4.6	3785	3	US-09-688-307A-98	Sequence 98, Appl
1179	41.2	4.6	1900	3	US-09-608-285A-47	Sequence 47, Appl	1252	41.2	4.6	3785	4	US-09-350-259-98	Sequence 98, Appl
1180	41.2	4.6	1900	4	US-09-557-800C-47	Sequence 47, Appl	1253	41.2	4.6	3956	1	US-08-485-618-97	Sequence 97, Appl
1181	41.2	4.6	1912	4	US-09-800-729-32	Sequence 32, Appl	1254	41.2	4.6	3956	2	US-08-605-672-97	Sequence 97, Appl
1182	41.2	4.6	1952	1	US-08-333-358-1	Sequence 1, Appl	1255	41.2	4.6	3956	2	US-08-482-293A-97	Sequence 97, Appl
1183	41.2	4.6	1952	1	US-08-463-694-1	Sequence 1, Appl	1256	41.2	4.6	3956	2	US-08-943-363-97	Sequence 97, Appl
1184	41.2	4.6	1952	1	US-08-694-501-1	Sequence 1, Appl	1257	41.2	4.6	3956	3	US-09-193-043-97	Sequence 97, Appl
1185	41.2	4.6	2068	4	US-09-684-405-7	Sequence 7, Appl	1258	41.2	4.6	3956	3	US-09-688-307A-97	Sequence 97, Appl
1186	41.2	4.6	2222	3	US-09-197-380-1	Sequence 1, Appl	1259	41.2	4.6	3956	4	US-09-350-259-97	Sequence 97, Appl
1187	41.2	4.6	2294	3	US-09-608-285A-49	Sequence 49, Appl	c1260	41.2	4.6	4419	4	US-09-620-312D-187	Sequence 187, App
1188	41.2	4.6	2294	4	US-09-557-800C-49	Sequence 49, Appl	1261	41.2	4.6	7044	4	US-09-949-016-14113	Sequence 14113, A
1189	41.2	4.6	2301	3	US-09-232-191-8	Sequence 8, Appl	1262	41.2	4.6	7527	4	US-09-252-991A-71	Sequence 71, Appl
1190	41.2	4.6	2301	3	US-09-232-200-8	Sequence 8, Appl	1263	41.2	4.6	20902	4	US-09-949-016-12684	Sequence 12684, A
1191	41.2	4.6	2301	3	US-09-232-197-8	Sequence 8, Appl	1264	41.2	4.6	20908	4	US-09-949-016-14764	Sequence 14764, A
1192	41.2	4.6	2301	3	US-09-232-201-8	Sequence 8, Appl	1265	41.2	4.6	26624	4	US-09-949-016-13269	Sequence 13269, A
1193	41.2	4.6	2301	4	US-09-232-195-8	Sequence 8, Appl	1266	41.2	4.6	3371	4	US-09-949-016-13473	Sequence 13473, A
1194	41.2	4.6	2311	4	US-09-720-317A-19	Sequence 19, Appl	1267	41.2	4.6	3371	4	US-09-949-016-13474	Sequence 13474, A
1195	41.2	4.6	2331	4	US-09-866-028-54	Sequence 54, Appl	c1268	41.2	4.6	38814	4	US-09-949-016-13470	Sequence 13470, A

c1269	41.2	4.6	38814	4	US-09-949-016-13471	Sequence 13471, A	c1342	41	4.6	601	4	US-09-949-016-79920	Sequence 79920, A
1270	41.2	4.6	41755	4	US-09-949-016-15728	Sequence 15728, A	c1343	41	4.6	601	4	US-09-949-016-86023	Sequence 86023, A
1271	41.2	4.6	45197	4	US-09-949-016-16208	Sequence 16208, A	c1344	41	4.6	601	4	US-09-949-016-86024	Sequence 86024, A
c1272	41.2	4.6	48763	4	US-09-949-016-16208	Sequence 3, Appl1	c1345	41	4.6	601	4	US-09-949-016-86025	Sequence 86025, A
c1273	41.2	4.6	48763	4	US-10-282-048-3	Sequence 3, Appl1	c1346	41	4.6	601	4	US-09-949-016-86025	Sequence 162840, A
1274	41.2	4.6	49440	4	US-09-949-016-14350	Sequence 14150, A	1347	41	4.6	601	4	US-09-949-016-162840	Sequence 162840, A
c1275	41.2	4.6	50263	4	US-09-949-016-13563	Sequence 13563, A	1348	41	4.6	684	1	US-09-949-016-184726	Sequence 27, Appl
1276	41.2	4.6	51403	4	US-09-949-016-15057	Sequence 15057, A	c1349	41	4.6	685	3	US-09-227-357-66	Sequence 66, Appl
c1277	41.2	4.6	52971	4	US-09-949-016-16452	Sequence 16452, A	1350	41	4.6	734	4	US-09-949-016-413	Sequence 413, App
c1278	41.2	4.6	56939	4	US-09-949-016-13613	Sequence 13613, A	1351	41	4.6	737	4	US-09-148-545-127	Sequence 127, App
1279	41.2	4.6	66213	4	US-09-949-016-11603	Sequence 11803, A	1352	41	4.6	780	4	US-09-454-279-17	Sequence 17, Appl
1280	41.2	4.6	66213	4	US-09-949-016-11603	Sequence 16739, A	1353	41	4.6	921	3	US-09-227-357-30	Sequence 30, Appl
1281	41.2	4.6	72742	4	US-09-949-016-16361	Sequence 16161, A	1354	41	4.6	931	4	US-09-482-273-31	Sequence 31, Appl
1282	41.2	4.6	72992	4	US-09-949-016-17592	Sequence 17592, A	1355	41	4.6	943	3	US-09-149-476-35	Sequence 35, Appl
c1283	41.2	4.6	76281	4	US-09-949-016-12708	Sequence 12708, A	1356	41	4.6	975	3	US-09-381-488-6	Sequence 6, Appl
1284	41.2	4.6	106929	4	US-09-949-016-12708	Sequence 12708, A	1357	41	4.6	1046	1	US-08-361-467B-4	Sequence 4, Appl
1285	41.2	4.6	106929	4	US-09-949-016-16618	Sequence 16618, A	1358	41	4.6	1046	1	US-08-484-332C-4	Sequence 4, Appl
1286	41.2	4.6	142783	4	US-09-949-016-16618	Sequence 16618, A	1359	41	4.6	1118	4	US-09-614-912-181	Sequence 181, App
c1287	41.2	4.6	174493	4	US-09-804-471A-3	Sequence 15127, A	1360	41	4.6	1294	3	US-09-425-578-1	Sequence 1, Appl
c1288	41.2	4.6	174493	4	US-10-238-709-3	Sequence 3, Appl1	1361	41	4.6	1319	2	US-08-504-459-7	Sequence 7, Appl
c1289	41.2	4.6	194915	4	US-09-949-016-15584	Sequence 15584, A	1362	41	4.6	1375	3	US-09-372-422A-37	Sequence 37, Appl
c1290	41.2	4.6	219964	4	US-09-949-016-15086	Sequence 15086, A	1363	41	4.6	1378	3	US-09-149-476-208	Sequence 208, App
c1291	41.2	4.6	304533	4	US-09-949-016-15371	Sequence 15371, A	1364	41	4.6	1389	3	US-09-463-238-12	Sequence 12, Appl
c1292	41.2	4.6	304533	4	US-09-949-016-15372	Sequence 15372, A	1365	41	4.6	1395	2	US-08-553-367A-1	Sequence 1, Appl
1293	41.2	4.6	346112	4	US-09-949-016-13165	Sequence 13165, A	1366	41	4.6	1395	3	US-09-295-306-1	Sequence 1, Appl
1294	41.2	4.6	455726	4	US-09-949-016-14157	Sequence 14157, A	1367	41	4.6	1395	3	US-09-734-719-1	Sequence 1, Appl
1295	41.2	4.6	481115	4	US-09-949-016-11940	Sequence 11940, A	1368	41	4.6	1396	4	US-09-482-273-21	Sequence 21, Appl
c1296	41.2	4.6	524032	4	US-09-949-016-16928	Sequence 16928, A	1369	41	4.6	1512	4	US-09-482-273-18	Sequence 18, App
c1297	41.2	4.6	524032	4	US-09-949-016-16929	Sequence 16929, A	1370	41	4.6	1713	3	US-09-000-062-1	Sequence 1, Appl
c1298	41.2	4.6	524032	4	US-09-949-016-16930	Sequence 16930, A	1371	41	4.6	1713	4	US-08-945-144A-1	Sequence 1, Appl
c1299	41.2	4.6	524032	4	US-09-949-016-16931	Sequence 16931, A	1372	41	4.6	1866	4	US-09-673-395A-24	Sequence 24, Appl
c1300	41.2	4.6	529885	4	US-09-949-016-14340	Sequence 14340, A	1373	41	4.6	1882	4	US-09-419-679-3	Sequence 3, Appl
c1301	41.2	4.6	529885	4	US-09-949-016-14341	Sequence 14341, A	1374	41	4.6	1886	4	US-09-594-506-31	Sequence 31, Appl
c1302	41.2	4.6	529885	4	US-09-949-016-14342	Sequence 14342, A	1375	41	4.6	2080	4	US-10-003-382-1	Sequence 1, Appl
c1303	41.2	4.6	529885	4	US-09-949-016-14343	Sequence 14343, A	1376	41	4.6	2296	3	US-08-496-841C-137	Sequence 137, App
c1304	41.2	4.6	529885	4	US-09-949-016-14344	Sequence 14344, A	1377	41	4.6	2312	4	US-09-631-594-45	Sequence 45, Appl
c1305	41.2	4.6	529885	4	US-09-949-016-14345	Sequence 14345, A	1378	41	4.6	2323	3	US-09-149-476-24	Sequence 24, Appl
c1306	41.2	4.6	529885	4	US-09-949-016-14346	Sequence 14346, A	1379	41	4.6	2481	2	US-08-630-118A-1	Sequence 1, Appl
c1307	41.2	4.6	529885	4	US-09-949-016-14347	Sequence 14347, A	1380	41	4.6	2481	2	US-08-838-399-1	Sequence 1, Appl
c1308	41	4.6	52	3	US-09-415-784-23	Sequence 23, Appl	1381	41	4.6	2481	3	US-09-327-035-1	Sequence 1, Appl
c1309	41	4.6	52	3	US-09-415-785A-23	Sequence 23, Appl	1382	41	4.6	2481	3	US-09-327-035-1	Sequence 1, Appl
c1310	41	4.6	52	3	US-08-944-465-23	Sequence 23, Appl	1383	41	4.6	2604	2	US-08-630-118A-3	Sequence 3, Appl
c1311	41	4.6	52	3	US-09-415-868-23	Sequence 23, Appl	1384	41	4.6	2604	2	US-08-838-399-3	Sequence 3, Appl
c1312	41	4.6	52	3	US-09-415-900-23	Sequence 23, Appl	1385	41	4.6	2604	3	US-09-235-839-3	Sequence 3, Appl
c1313	41	4.6	52	3	US-09-507-362-23	Sequence 23, Appl	1386	41	4.6	2604	3	US-09-327-035-3	Sequence 3, Appl
1314	41	4.6	84	1	US-08-664-596B-3	Sequence 3, Appl1	1387	41	4.6	2628	2	US-08-696-944-1	Sequence 1, Appl
1315	41	4.6	84	1	US-08-738-367-3	Sequence 3, Appl1	1388	41	4.6	2806	3	US-09-653-839-9	Sequence 9, Appl
1316	41	4.6	188	4	US-09-621-976-10364	Sequence 10364, A	1389	41	4.6	2806	4	US-10-202-619-9	Sequence 9, Appl
1317	41	4.6	232	4	US-09-621-976-17701	Sequence 17701, A	1390	41	4.6	2880	3	US-09-115-954-3	Sequence 3, Appl
1318	41	4.6	279	4	US-09-621-976-17826	Sequence 17826, A	1391	41	4.6	3116	4	US-09-311-021-187	Sequence 187, App
1319	41	4.6	323	4	US-09-621-976-10374	Sequence 10374, A	1392	41	4.6	3704	2	US-09-014-969-20	Sequence 20, Appl
1320	41	4.6	332	4	US-09-621-976-16031	Sequence 16031, A	1393	41	4.6	3842	3	US-09-115-954-7	Sequence 7, Appl
1321	41	4.6	332	4	US-09-621-976-16031	Sequence 16832, A	1394	41	4.6	3912	3	US-09-115-954-1	Sequence 1, Appl
1322	41	4.6	349	4	US-09-621-976-16832	Sequence 16832, A	1395	41	4.6	3927	3	US-09-293-238B-1	Sequence 1, Appl
1323	41	4.6	365	4	US-09-621-976-14699	Sequence 14699, A	1396	41	4.6	3933	1	US-08-199-776-1	Sequence 1, Appl
c1324	41	4.6	386	4	US-09-640-173-16	Sequence 16, Appl	1397	41	4.6	3933	3	US-08-663-731-1	Sequence 1, Appl
c1325	41	4.6	386	4	US-09-640-173-57	Sequence 57, Appl	1398	41	4.6	3933	3	US-08-879-338-1	Sequence 1, Appl
c1326	41	4.6	396	4	US-09-713-550-16	Sequence 57, Appl	1399	41	4.6	3933	5	PCT-US95-02044-1	Sequence 1, Appl
c1327	41	4.6	396	4	US-09-713-550-57	Sequence 57, Appl	1400	41	4.6	4827	4	US-09-949-016-525	Sequence 525, App
c1328	41	4.6	396	4	US-09-825-294-16	Sequence 16, Appl	c1401	41	4.6	4827	4	US-09-949-016-13817	Sequence 13817, A
c1329	41	4.6	396	4	US-09-825-294-57	Sequence 57, Appl	c1402	41	4.6	20316	4	US-09-949-016-14360	Sequence 14360, A
c1330	41	4.6	396	4	US-09-970-966-16	Sequence 16, Appl	c1403	41	4.6	28109	4	US-09-949-016-14329	Sequence 14329, A
1331	41	4.6	569	4	US-09-461-325-44	Sequence 44, Appl	c1404	41	4.6	32414	4	US-09-949-016-16443	Sequence 16443, A
1332	41	4.6	569	4	US-10-012-542-44	Sequence 44, Appl	c1405	41	4.6	40546	4	US-09-949-016-16443	Sequence 12847, A
1333	41	4.6	569	4	US-10-115-123-44	Sequence 44, Appl	c1406	41	4.6	45456	4	US-09-949-016-12847	Sequence 12915, A
1334	41	4.6	581	2	US-08-537-309B-22	Sequence 22, Appl	1407	41	4.6	54245	4	US-09-949-016-14112	Sequence 14112, A
1335	41	4.6	581	3	US-08-537-309B-22	Sequence 22, Appl	c1408	41	4.6	54245	4	US-09-949-016-13499	Sequence 13499, A
1336	41	4.6	581	3	US-08-537-309B-22	Sequence 22, Appl	c1409	41	4.6	92155	4	US-09-949-016-17484	Sequence 17484, A
1337	41	4.6	601	3	US-09-256-976-22	Sequence 22, Appl	c1410	41	4.6	107458	4	US-09-949-016-15687	Sequence 15687, A
c1338	41	4.6	601	3	US-09-949-016-25473	Sequence 25473, A	1411	41	4.6	118143	4	US-09-949-016-11296	Sequence 17196, A
c1339	41	4.6	601	4	US-09-949-016-48779	Sequence 48779, A	c1412	41	4.6	121970	4	US-09-949-016-17216	Sequence 17216, A
1340	41	4.6	634	4	US-09-949-016-70342	Sequence 70342, A	1413	41	4.6	150780	4	US-09-949-016-14711	Sequence 14711, A
c1341	41	4.6	601	4	US-09-949-016-73651	Sequence 73651, A	c1414	41	4.6	153866	4	US-09-949-016-16919	Sequence 16919, A

QY 360 GG-CCAGGACAGAGAGTGTCTACGGGACAGCGTGCAGCGGCTAGAAAGTCCAGCTGAGGA 418
DB 365 GGCCCCCAGGACAGAGAGTGTCTACGGGACAGCGTGCAGCGGCTAGAAAGTCCAGCTGAGGA 424
QY 419 GCGCCTGGCTGGGCCCTGCGCTACCGAGAAATTTGAGGTCTTTAAAGGCTCAAGCTGACAAAGC 478
DB 425 GCGCCTGGCTGGGCCCTGCGCTACCGAGAAATTTGAGGTCTTTAAAGGCTCAAGCTGACAAAGC 484
QY 479 AGAGCCACATCTTATGCGGCCCTCACAGGCCACGTTGCAGCGGCGCAGAGCGCGGAGATGGTGG 538
DB 485 AGAGCCACATCTTATGCGGCCCTCACAGGCCACGTTGCAGCGGCGCAGAGCGCGGAGATGGTGG 544
QY 539 CACAGCAGCATCGCTGCGCAGACATCCAGGAGAGATCCACACAGCGGCGCTCCAGCCCT 598
DB 545 CACAGCAGCATCGCTGCGCAGACATCCAGGAGAGATCCACACAGCGGCGCTCCAGCCCT 604
QY 599 GAATCTGCGCTGGATGGAATCAGGAGCAATCATGCTGCAAGGAAACAATTTCCAGCGCCCGT 658
DB 605 GAATCTGCGCTGGATGGAATCAGGAGCAATCATGCTGCAAGGAAACAATTTCCAGCGCCCGT 664
QY 659 GAGGCCCTGTGCAGGAGAGTGTGCTGTTCACTGGGATCAGCCACAGCGGCGCGGCGCCC 718
DB 665 GAGGCCCTGTGCAGGAGAGTGTGCTGTTCACTGGGATCAGCCACAGCGGCGCGGCGCCC 724
QY 719 ACTTCTGACACAGACAGAGACAGCGCAGCGCGGCGGACAAAGGCGAGAGATGTAGCCCC 778
DB 725 ACTTCTGACACAGACAGAGACAGCGCAGCGCGGCGGACAAAGGCGAGAGATGTAGCCCC 784
QY 779 ATTGGGAGGGGTGGAGGAAGGACATGTACCCCTTTTCATGCTACACACCCCTCATTTAAAG 838
DB 785 ATTGGGAGGGGTGGAGGAAGGACATGTACCCCTTTTCATGCTACACACCCCTCATTTAAAN 844
QY 839 CAGAGTCGTGGCATTTTCAAAAAA 869
DB 845 CANAGTCGTGGCATCTCAAAAAA 875

RESULT 2

US-09-369-247-16
; Sequence 16, Application US/09369247
; Patent No. 6569992
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 44 Human Secreted Proteins
; FILE REFERENCE: P2024P1
; CURRENT APPLICATION NUMBER: US/09/369,247
; CURRENT FILING DATE: 1999-08-05
; EARLIER APPLICATION NUMBER: 60/074,118
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/074,157
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/074,137
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/074,341
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/074,141
; EARLIER FILING DATE: 1998-02-09
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
; LENGTH: 990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-369-247-16

Query Match 78.8%; Score 704; DB 4; Length 990;
Best Local Similarity 86.8%; Pred. No. 8.7e-156;
Matches 855; Conservative 8; Mismatches 13; Indels 108; Gaps 4;
QY 3 CATGCCAGTGCCTGCTGTCGCTGCTGGGCGCTGGCAATGGTGAACCGGCTGCCTC 62
DB 2 CATGCCAGTGCCTGCTGTCGCTGCTGGGCGCTGGCAATGGTGAACCGGCTGCCTC 61

QY 63 AGCGCCCCCATGGCGGCGCCAGAACTGGCACAGCATGAGGAGCTGACCCCTGCTTTCCA 122
DB 62 AGCGCCCCCATGGCGGCGCCAGAACTGGCACAGCATGAGGAGCTGACCCCTGCTTTCCA 121
QY 123 TGGGACCTCTGAGCTGGGCGCCAGAGCCCTCAAACGGTGTGTACAGGACCAACGAGAGGACGGCT 182
DB 122 CGGGACCTCTGAGCTGGGCGCCAGAGCCCTCAAACGGTGTGTACAGGACCAACGAGAGGACGGCT 181
QY 183 GACAAAGGCCAGGAAACAGCCTTGGGTCTCTATGCGCCGCAACATAGAACTCTCTGCGGAGGA 242
DB 182 GACAAAGGCCAGGAAACAGCCTTGGGTCTCTATGCGCCGCAACATAGAACTCTCTGCGGAGGA 241
QY 243 GGTACAGCGGCGCGGAGTGCAGGCCAGGAACTTCGGGCAAGCCTGTTGGAGACTCAGAT 302
DB 242 GGTACAGCGGCGCGGAGTGCAGGCCAGGAACTTCGGGCAAGCCTGTTGGAGACTCAGAT 301
QY 303 GGAGGAGGATATTTGCAAGCTGCAGGCGAGAGGCCACAGCTGAGGTGCTGGGGAGGTGGC 362
DB 302 GGAGGAGGATATTTGCAAGCTGCAGGCGAGAGGCCACAGCTGAGGTGCTGGGGAGGTGGC 361
QY 363 CCAGGCAACAGAGGTGCTTACGGGACAGCGTGCAGCGGCTAGAACTCCAGCTGAGGAGCGC 422
DB 362 CCAGGCAACAGAGGTGCTTACGGGACAGCGTGCAGCGGCTAGAACTCCAGCTGAGGAGCGC 421
QY 423 CTGCTGGGCGCTGCTTACCGGAGAAATTTGAGGTCTTTAAAGGCTCACGCTGACAGC-AGA 481
DB 422 CTGCTGGGCGCTGCTTACCGGAGAAATTTGAGGTCTTTAAAGGCTCACGCTGACAGC-AGA 481
QY 482 GCCACATCTATGGGCGCTCACAGGCCACGTCAGCGCGCAGAGCGGAGATGTGGGCAC 541
DB 482 GCCACATCTATGGGCGCTCACAGGCCACGTCAGCGCGCAGAGCGGAGATGTGGGCAC 540
QY 542 AGCAGCATCGGCTGGGCGCAGATCCAGGAG- 570
DB 541 AGCAGCATCGGCTGGGCGCAGATCCAGGAGAGGTGAGCTGGCAGGGGTTTGGGAGGCGG 600
QY 571 ----- 570
DB 601 GCAGTTGGATGGGCGCGCACAGGGCAGCTGGAAGGGGCCCCCTCACCTGGGCTGAGCC 660
QY 571 -----AGACTCCACACAGCGGCGCTCCAGCGCTGAATCTGCTTGGATGGAA 616
DB 661 ACATCTCCCTCCCGAGACTCCACACAGCGGCGCTCCAGCGCTGAATCTGCTTGGATGGAA 720
QY 617 CTGAGGACCAATCATGCTGCAAGGACACTTCCAGCGGCGCTGAGGCGGCGCTGTCGAGGGA 676
DB 721 CTGAGGACCAATCATGCTGCAAGGACACTTCCAGCGGCGCTGAGGCGGCGCTGTCGAGGGA 780
QY 677 GGAGCTGCTGTTCACTGGGATCAGCCAGGGCGCGGCGGCGGCGGCTTCTGAGCAGAGCA 736
DB 781 GGAGCTGCTGTTCACTGGGATMAGCCAGGGCGCGGCGGCGGCGGCTTCTGAGCAGAGCA 840
QY 737 GAGACAGCAGCGGCGGCGGACAAAGGCGAGAGGATAG-CCCCATTTGGGAGGGGTGGAG 795
DB 841 GAGACAGCAGCGGCGGCGGACAAAGGCGAGAGGATAGTAGTCCCCCATTTGGGAGGGGTGGAG 900
QY 796 GAAGGACATGTACCCCTTTTCATGCTTACACACCCCTCATTTAAAGCAGAGCTGCTGGCATTTTC 855
DB 901 GAAGGACATGTACCCCTTTTCATGCTTACACACCCCTCATTTAAAGCAGAGCTGCTGGCATTTTC 960
QY 856 AAAAAAAAAAAAAAAAAAAAAA 879
DB 961 AAAAAAAAAAAAAAAAAAAAAA 984

RESULT 3

US-09-799-451-35
; Sequence 35, Application US/09799451
; Patent No. 6783969
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle

APPLICANT: Asundi, Vinod
APPLICANT: Ren, Feiyang
APPLICANT: Zhang, Jie
APPLICANT: Xue, Aidong J.
APPLICANT: Zhao, Qiong A.
APPLICANT: Wang, Jian-Rui
APPLICANT: Ma, Yuning
APPLICANT: Yamazaki, Victoria
APPLICANT: Chen, Rui-hong
APPLICANT: Wang, Zhiwei
APPLICANT: Wang, Dunrui
APPLICANT: Yang, Yonghong
APPLICANT: Weinman, Tom
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 803
CURRENT APPLICATION NUMBER: US/09/799,451
CURRENT FILING DATE: 2001-03-05
NUMBER OF SEQ ID NOS: 948
SOFTWARE: pt_FL_genes Version 2.0
SEQ ID NO 35
LENGTH: 707
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (8)...(601)
US-09-799-451-35

Query Match 78.5%; Score 701.4; DB 4; Length 707;
Best Local Similarity 99.9%; Pred. No. 3.2e-155;
Matches 702; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GTATGCCAGTGCCTGCTCTGTGCTGCTCTGCGCCCTGGCAATGGTACCCGCGCTGCC 60
Db 5 GTATGCCAGTGCCTGCTCTGTGCTGCTCTGCGCCCTGGCAATGGTACCCGCGCTGCC 64

Qy 61 TCAGCGGCCCATGCGCGGCCAGACTGCGACAGCATGAGGAGCTGACCTGCTCTTC 120
Db 65 TCAGCGGCCCATGCGCGGCCAGACTGCGACAGCATGAGGAGCTGACCTGCTCTTC 124

Qy 121 CATGGACCTTCAGCTGGCGCCAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 180
Db 125 CATGGACCTTCAGCTGGCGCCAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 184

Qy 181 CTGACAAAGGCCAGGAGCTGCGACAGCATGAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 240
Db 185 CTGACAAAGGCCAGGAGCTGCGACAGCATGAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 244

Qy 541 CAGCAGCATCGGCTGCGACAGATCAGAGAGAGTCCACACAGCGCGCGCTCCACAGCTCGA 600

Db 545 CAGCAGCATCGGCTGCGACAGATCAGAGAGAGTCCACACAGCGCGCGCTCCACAGCTCGA 604
Qy 601 ATCTGCTGGATGGAACCTGAGGACCAATCATGTGCAAGGAACACTTCCACGCGCCGCTGA 660
Db 605 ATCTGCTGGATGGAACCTGAGGACCAATCATGTGCAAGGAACACTTCCACGCGCCGCTGA 664

Qy 661 GGCCCTGTGCGAGGAGGAGCTGCTGTTACTGCTGGATCAGCC 703
Db 665 GGCCCTGTGCGAGGAGGAGCTGCTGTTACTGCTGATCAGCC 707

RESULT 4
US-09-799-451-36
Sequence 36, Application US/09799451
Patent No. 6783969
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Zhou, Ping
APPLICANT: Goodrich, Ryle
APPLICANT: Asundi, Vinod
APPLICANT: Ren, Feiyang
APPLICANT: Zhang, Jie
APPLICANT: Xue, Aidong J.
APPLICANT: Zhao, Qiong A.
APPLICANT: Wang, Jian-Rui
APPLICANT: Ma, Yuning
APPLICANT: Yamazaki, Victoria
APPLICANT: Chen, Rui-hong
APPLICANT: Wang, Zhiwei
APPLICANT: Wang, Dunrui
APPLICANT: Yang, Yonghong
APPLICANT: Weinman, Tom
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 803
CURRENT APPLICATION NUMBER: US/09/799,451
CURRENT FILING DATE: 2001-03-05
NUMBER OF SEQ ID NOS: 948
SOFTWARE: pt_FL_genes Version 2.0
SEQ ID NO 36
LENGTH: 708
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (8)...(439)
US-09-799-451-36

Query Match 59.2%; Score 528.8; DB 4; Length 708;
Best Local Similarity 81.1%; Pred. No. 1.1e-114;
Matches 702; Conservative 0; Mismatches 2; Indels 162; Gaps 1;

Qy 1 GTATGCCAGTGCCTGCTCTGTGCTGCTCTGCGCCCTGGCAATGGTACCCGCGCTGCC 60
Db 5 GTATGCCAGTGCCTGCTCTGTGCTGCTCTGCGCCCTGGCAATGGTACCCGCGCTGCC 64

Qy 61 TCAGCGGCCCATGCGCGGCCAGAACTGCGACAGCATGAGGAGCTGACCTGCTCTTC 120
Db 65 TCAGCGGCCCATGCGCGGCCAGAACTGCGACAGCATGAGGAGCTGACCTGCTCTTC 124

Qy 121 CATGGACCTTCAGCTGGCGCCAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 180
Db 125 CATGGACCTTCAGCTGGCGCCAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 184

Qy 181 CTGACAAAGGCCAGGAGCTGCGACAGCATGAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 240
Db 185 CTGACAAAGGCCAGGAGCTGCGACAGCATGAGGAGCTGCGACAGCATGAGGAGCTGACCTGCTCTTC 244

Qy 241 GAGGTGAGCGCGCGCGGAGTGCAGCCAGGAGCTTCCGGCAAGCTTGTGGAGACTCAG 300
Db 245 GAGGTGAGCGCGCGCGGAGTGCAGCCAGGAGCTTCCGGCAAGCTTGTGGAGACTC-- 302

Qy	301	ATGGAGGAGGATATTCTG	CAGCTGCAGGCAGAGGCCA	CAGCTGAGTGCTGCGGGAGGTG	360
		-----	-----	-----	
Db	303				302
Qy	361	GCCAGGCACAGAGGTGCT	ACGGGACAGCTGCAGCGGCT	AGAAAGTCAGCTGAGGAGC	420
		-----	-----	-----	
Db	303				302
Qy	421	GCCTGGCTGGGCGCTG	CCCTACCGAGAAATTTG	AGGTCTTAAAGCTCAGCT	480
		-----	-----	-----	
Db	303				322
Qy	481	AGCCACATCCTATGGG	CCCTCACAGGCCACGTG	CAGCGGCAGAGGGGAGAT	540
		-----	-----	-----	
Db	323	AGCCACATCCTATGGG	CCCTCACAGGCCACGTG	CAGCGGCAGAGGGGAGAT	382
Qy	541	CAGCAGATCGCTCCG	ACAGATCCAGAGAGACT	TCCACACAGCGCGCTCC	600
		-----	-----	-----	
Db	383	CAGCAGCATCGCTCG	CAGATCCAGGAGAGACT	TCCACACAGCGCGCTCC	442
Qy	601	ATCTGCCTGGATGG	AACTGAGGACCAATCAT	CTGCAAGGAACAATTCA	660
		-----	-----	-----	
Db	443	ATCTGCCTGGATGG	AACTGAGGACCAATCAT	CTGCAAGGAACAATTCA	502
Qy	661	GGCCCTGTGCAGG	AGGAGCTCCCTGTTCAT	CTGGATCAGCCAGGCGC	720
		-----	-----	-----	
Db	503	GGCCCTGTGCAGG	AGGAGCTCCCTGTTCAT	CTGGATCAGCCAGGCGC	562
Qy	721	TTCTGAGCACAG	CAGAGACAGACGCGG	GACAAAGGCAGAGGAT	780
		-----	-----	-----	
Db	563	TTTTGAGCACAG	CAGCAGAGCGCGG	GACAAAGGCAGAGGAT	622
Qy	781	TGGGAGGGGTGG	AGGAGCATGTACCTTT	CATGCTACACACCCCT	840
		-----	-----	-----	
Db	623	TGGGAGGGGTGG	AGGAGCATGTACCTTT	CATGCTACACACCCCT	682
Qy	841	GAGTCGTGCATTTT	CAAAAAAAAAAAAA		866
		-----	-----	-----	
Db	683	GAGTCGTGCATCT	CAAAAAAAAAAAAA		708

RESULT 5

US-09-976-594-869	US-09-976-594-869
; Sequence 869, Application US/09976594	
; Patent No. 6673549	
; GENERAL INFORMATION:	
; APPLICANT: Furness, Michael	
; APPLICANT: Buchbinder, Jenny	
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS	
; FILE REFERENCE: PA-0041 US	
; CURRENT APPLICATION NUMBER: US/09/976,594	
; CURRENT FILING DATE: 2001-10-12	
; PRIOR APPLICATION NUMBER: 60/240,409	
; PRIOR FILING DATE: 2000-10-12	
; NUMBER OF SEQ ID NOS: 1143	
; SOFTWARE: PERL Program	
; SEQ ID NO 869	
; LENGTH: 1372	
; TYPE: DNA	
; ORGANISM: Homo sapiens	
; FEATURE:	
; NAME/KEY: misc_feature	
; OTHER INFORMATION: Incyte	ID No. 6673549 027619.3
US-09-976-594-869	US-09-976-594-869

	Query Match	57.4%	Score 512.2;	DB 4;	Length 1372;
	Best Local Similarity	89.6%	Pred. NO. 1.le-110;		
	Matches 779;	Conservative	0;	Mismatches 58;	Indels 32; Gaps 20;
Qy	27	GCTCTGGGCCCTGG-CAATGTGTACCCCGGCTGCTCAGCGGGCCCCCAATGGCGGGCCCGAG	85		
Db	504	GCTCTGGGCCCTGTGTCAATGTGTACCCCGGCTGCTCAGCGGGCCCCCAATGGCGGGCCCGAG	563		

Qy	86	A	A	C	T	-	G	C	A	G	A	T	G	A	G	A	G	A	C	T	G	-	T	C	T	C	A	T	G	G	A	C	C	T	-	G	A	C	T	G	G	C	142									
Db	564	A	A	C	T	G	G	G	C	A	C	A	G	A	T	G	A	G	A	T	G	A	C	C	T	G	C	T	T	T	C	A	T	G	G	A	C	C	T	G	C	A	G	T	G	G	C	623				
Qy	143	A	G	G	C	C	T	C	A	A	C	G	T	G	T	G	T	A	C	A	G	A	C	C	A	G	G	A	G	G	T	G	-	A	C	A	A	G	G	C	A	G	A	A	C	A	G	C	201			
Db	624	A	G	G	C	C	T	C	A	A	C	G	T	G	T	G	T	A	C	A	G	A	C	C	A	G	G	A	G	G	T	G	A	A	C	A	A	A	G	G	C	A	G	A	A	C	A	G	C	683		
Qy	202	C	T	G	G	T	C	T	A	T	G	G	C	C	G	C	A	A	A	T	A	G	A	A	C	T	C	T	G	G	-	-	C	A	G	A	G	T	C	A	G	C	C	G	G	C	G	G	259			
Db	684	C	T	G	G	T	C	T	A	T	G	G	C	C	G	C	A	A	A	T	A	G	A	A	C	T	C	T	G	G	G	C	A	G	A	G	T	T	C	A	G	C	C	G	G	C	G	G	743			
Qy	260	A	T	G	C	A	G	C	C	A	G	A	A	C	T	T	G	G	-	C	A	G	C	C	T	T	G	G	-	A	G	A	C	T	C	A	-	A	T	G	G	A	G	A	G	A	T	T	C	316		
Db	744	A	T	G	C	A	G	C	C	A	G	A	A	C	T	T	G	G	T	C	A	G	C	T	T	G	T	G	T	A	C	T	C	A	T	A	T	G	A	T	G	G	A	G	A	T	T	C	803			
Qy	317	T	G	C	A	G	-	-	C	T	C	A	G	C	A	G	A	G	C	C	A	C	A	G	T	A	G	T	G	-	C	T	G	G	G	A	G	T	G	C	C	A	-	G	C	A	C	A	G	372		
Db	804	T	G	C	A	G	T	C	T	G	C	A	G	A	G	C	C	A	C	A	G	T	A	G	T	G	T	C	T	G	G	G	A	G	T	G	C	C	A	T	G	C	A	G	C	A	G	863				
Qy	373	A	A	G	T	G	C	T	A	C	G	A	C	A	C	T	G	C	A	G	C	G	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	425				
Db	864	A	A	G	T	G	C	T	A	C	G	T	A	C	A	C	T	G	C	A	G	C	G	T	A	G	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	923			
Qy	426	G	C	T	G	G	G	C	C	T	A	C	G	C	A	G	-	-	A	A	T	T	A	G	G	T	C	T	A	A	A	G	G	C	T	C	A	G	C	T	G	A	-	C	A	A	G	C	A	G	482	
Db	924	G	C	T	G	G	G	C	C	T	A	C	G	T	A	T	T	T	A	G	T	C	T	T	A	A	A	G	G	C	T	A	A	A	G	C	T	C	A	G	C	T	A	A	G	C	A	G	983			
Qy	483	C	C	A	C	A	T	C	T	A	T	G	G	C	C	T	C	A	C	A	G	G	C	-	A	C	T	G	C	A	G	C	G	G	C	A	G	A	G	C	G	G	A	G	A	T	G	T	G	C	A	541
Db	984	C	C	A	C	A	T	C	T	A	T	G	G	C	C	T	C	A	C	A	G	G	C	T	A	C																										

RESULT 6

```

US-09-621-976-17767
; Sequence 17767, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17767

```

LENGTH: 298
TYPE: DNA
ORGANISM: Homo sapiens
US-09-621-976-17767

Query Match 16.0%; Score 142.6; DB 4; Length 298;
Best Local Similarity 97.5%; Pred. No. 3.8e-24;
Matches 153; Conservative 1; Indels 1; Gaps 1;
QY 1 GTCATCCAGTGGCTCTGTGCTGCTCTGGGCTTGGCAATGGTGAACCGGCTGCC 60
DB 19 GTCATCCAGTGGCTCTGTGCTGCTCTGGGCTTGGCAATGGTGAACCGGCTGCC 78
QY 61 TCAGCGGCCCCATGCGGCGCCAGAACTGGCACAGCATGAGGAGTGCCTGTCTTC 120
DB 79 TCAGCGGCCCCATGCGGCGCCAGAACTGGCACAGCATGAGGAGTGCCTGTCTTC 137
QY 121 CATGGACCTCGAGTGGGCGGCGGCTCAACGGTG 157
DB 138 CATGGACCTCGAGTGGGCGGCGGCTCAACGATG 174

RESULT 7

US-09-249-585A-2
Sequence 2, Application US/09249585A
Patent No. 6417002

GENERAL INFORMATION:
APPLICANT: Horlick, Robert
TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISOMES
FILE REFERENCE: 0867/0D905
CURRENT APPLICATION NUMBER: US/09/249,585A
CURRENT FILING DATE: 1999-02-11
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
TYPE: DNA
ORGANISM: Epstein Barr Virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1926)
OTHER INFORMATION: coding strand of EBNA-1 DNA
US-09-249-585A-2

Query Match 6.3%; Score 56.4; DB 3; Length 1926;
Best Local Similarity 49.7%; Pred. No. 0.0013;
Matches 172; Conservative 0; Mismatches 171; Indels 3; Gaps 1;

QY 232 CTGGGCGAGGAGTCAAGCGGGCCGGGATGCGAGCCAGGAACTTGGGCAAGCCTGTG 291
DB 308 CAGGAGCAGGAGGAGGCGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 367
QY 292 GAGACTCAGATGAGGAGGATATTCTGCAGCTGCGAGGAGGAGGAGGAGGAGGAGGAG 351
DB 368 GGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 427
QY 352 G---GGGAGGTCGCCAGGACAGAAAGTGTCTACGGGACAGCGTGCAGCGGCTAGAAGTC 408
DB 428 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 487
QY 409 CAGCTGAGGAGGCGCTGCTGCGGCTTACCGAGAAATTTGAGTCTTAAAGGCTCAC 468
DB 488 CAGGAGGCGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 547
QY 469 GTGACAGCAGAGCCACATCTTATGGGCCCTTACAGGCCACGTCAGCGGCGAGGGCGG 528
DB 548 GGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 607
QY 529 GAGATGTTGGCACAGCAGCATCGGCTGCGACAGATCCAGGAGAGAC 574
DB 608 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 653

RESULT 8

US-09-410-399-3
Sequence 3, Application US/09410399
Patent No. 6482587
GENERAL INFORMATION:

APPLICANT: Robertson, Erle S.
APPLICANT: Cotter, Murray A.
TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
FILE REFERENCE: UM-03778
CURRENT APPLICATION NUMBER: US/09/410,399
CURRENT FILING DATE: 1999-10-01
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 1926
TYPE: DNA
ORGANISM: Epstein-Barr virus
US-09-410-399-3

Query Match 6.3%; Score 56.4; DB 4; Length 1926;
Best Local Similarity 49.7%; Pred. No. 0.0013;
Matches 172; Conservative 0; Mismatches 171; Indels 3; Gaps 1;

QY 232 CTGGGCGAGGAGTCAAGCGGGCCGGGATGCGAGCCAGGAACTTGGGCAAGCCTGTG 291
DB 308 CAGGAGCAGGAGGAGGCGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 367
QY 292 GAGACTCAGATGAGGAGGATATTCTGCAGCTGCGAGGAGGAGGAGGAGGAGGAGGAG 351
DB 368 GGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 427
QY 352 G---GGGAGGTCGCCAGGACAGAAAGTGTCTACGGGACAGCGTGCAGCGGCTAGAAGTC 408
DB 428 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 487
QY 409 CAGCTGAGGAGGCGCTGCTGCGGCTTACCGAGAAATTTGAGTCTTAAAGGCTCAC 468
DB 488 CAGGAGGCGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 547
QY 469 GCTGACAGCAGAGCCACATCTTATGGGCCCTTACAGGCCACGTCAGCGGCGAGGGCGG 528
DB 548 GGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 607
QY 529 GAGATGTTGGCACAGCAGCATCGGCTGCGACAGATCCAGGAGAGAC 574
DB 608 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 653

RESULT 9

US-09-050-863-2
Sequence 2, Application US/09050863
Patent No. 6114111
GENERAL INFORMATION:

APPLICANT: Lao, Ying
APPLICANT: Hiang, Betty
APPLICANT: Payan, Don
TITLE OF INVENTION: Mammalian Protein Interaction Cloning
TITLE OF INVENTION: System
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESS: Flehr, Hohbach, Test, Albritton & Herbert
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/050,863
FILING DATE: 30-MAR-1998
CLASSIFICATION: 30-MAR-1998
ATTORNEY/AGENT INFORMATION:
NAME: Silva, Robin M.
REGISTRATION NUMBER: 38,304
REFERENCE/DOCKET NUMBER: A-65638/DJB/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 949-8711
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2580 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
US-09-050-863-2

Query Match 6.3%; Score 56.4; DB 3; Length 2580;
Best Local Similarity 49.7%; Pred. No. 0.0014;
Matches 172; Conservative 0; Mismatches 171; Indels 3; Gaps 1;

QY 232 CTGGGGCAGGAGTTCAGCCGGGCGGGATCGAGCCAGGAACTTCGGGCAAGCCTGTTG 291
DB 691 CAGGAGCAGGAGGAGGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 750
QY 292 GAGACTCAGATGAGGAGGATATTCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 351
DB 751 GGGCAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 810
QY 352 G---GGGAGGTGGCCAGGACAGAAAGTGTCTACGGACAGCGTGCAGCGGCTAGAAGTC 408
DB 811 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 870
QY 409 CAGCTGAGGAGCGCTCGCTGGGCGCTTACCGAGAAATTTGAGGTCTTAAAGGCTCAC 468
DB 871 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 930
QY 469 GCTGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 528
DB 931 GGGCAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 990
QY 529 GAGATGTGGCAGCAGCAGTTCGCTCGCAGCAGATCCAGGAGAGAC 574
DB 991 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1036

RESULT 10
US-09-359-081-2
Sequence 2, Application US/09359081
Patent No. 6316223
GENERAL INFORMATION:
APPLICANT: Lao, Ying
Huang, Betty
Payan, Don
TITLE OF INVENTION: Mammalian Protein Interaction Cloning
System
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herbert
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/359,081

FILING DATE: 22-Jul-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/050,863
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Silva, Robin M.
REGISTRATION NUMBER: 38,304
REFERENCE/DOCKET NUMBER: A-65638/DJB/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 949-8711
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2580 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
US-09-359-081-2

Query Match 6.3%; Score 56.4; DB 3; Length 2580;
Best Local Similarity 49.7%; Pred. No. 0.0014;
Matches 172; Conservative 0; Mismatches 171; Indels 3; Gaps 1;

QY 232 CTGGGGCAGGAGTTCAGCCGGGCGGGATCGAGCCAGGAACTTCGGGCAAGCCTGTTG 291
DB 691 CAGGAGCAGGAGGAGGGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 750
QY 292 GAGACTCAGATGAGGAGGATATTCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 351
DB 751 GGGCAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 810
QY 352 G---GGGAGGTGGCCAGGACAGAAAGTGTCTACGGACAGCGTGCAGCGGCTAGAAGTC 408
DB 811 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 870
QY 409 CAGCTGAGGAGCGCTCGCTGGGCGCTTACCGAGAAATTTGAGGTCTTAAAGGCTCAC 468
DB 871 CAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 930
QY 469 GCTGACAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 528
DB 931 GGGCAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 990
QY 529 GAGATGTGGCAGCAGCAGTTCGCTCGCAGCAGATCCAGGAGAGAC 574
DB 991 GAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1036

RESULT 11
US-09-130-114-1/c
Sequence 1, Application US/09130114
Patent No. 5976807
GENERAL INFORMATION:
APPLICANT: Horlick, Robert A.
APPLICANT: Damaj, Bassam B.
APPLICANT: Robbins, Alan K.
TITLE OF INVENTION: Eukaryotic Cells Stably Expressing Genes
TITLE OF INVENTION: From Multiple Transfected Episomes
FILE REFERENCE: 0867/10903US1
CURRENT APPLICATION NUMBER: US/09/130,114
CURRENT FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 5452
TYPE: DNA
ORGANISM: VEBNA
US-09-130-114-1

Query Match 6.3%; Score 56.4; DB 2; Length 5452;

